



Innovative Peptide Solutions

PepMix™ HBV (Capsid Protein) Ultra

## Annotations – PepMix™ HBV (Capsid Protein) Ultra

HBV Core Protein, average coverage 92.5 %

All sequences are based on the HBV sequence database (HBVdb, hbvdb.ibcp.fr, Hayer J., Jadeau F., Deléage G., Kay A., Zoulim F., Combet C. (2013) HBVdb: a knowledge database for Hepatitis B Virus. *Nucleic Acids Res.*, **41**:D566-D570.).

### 2680 Protein sequences are covered at 100 %:

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KP234050\_HBc\_P-A; KP234051\_HBc\_P-A; KP234052\_HBc\_P-A; KP234053\_HBc\_P-A; L13994\_HBc\_P-A;  
M74501\_HBc\_P-A; X02763\_HBc\_C-A; X07911\_HBc\_P-A; X51970\_HBc\_P-A; Z72478\_HBc\_P-A;  
AB031261\_HBc\_P-B; AB031263\_HBc\_P-B; AB033555\_HBc\_P-B; AB073826\_HBc\_P-B;  
AB073827\_HBc\_P-B; AB073828\_HBc\_P-B; AB073829\_HBc\_P-B; AB073834\_HBc\_P-B;  
AB115551\_HBc\_P-B; AB195933\_HBc\_P-B; AB195934\_HBc\_P-B; AB195935\_HBc\_P-B;  
AB205119\_HBc\_P-B; AB219428\_HBc\_C-B; AB219430\_HBc\_P-B; AB246339\_HBc\_P-B;  
AB287328\_HBc\_P-B; AB287329\_HBc\_P-B; AB300364\_HBc\_P-B; AB355455\_HBc\_P-B;  
AB471854\_HBc\_P-B; AB471855\_HBc\_P-B; AB675676\_HBc\_P-B; AB713527\_HBc\_P-B;  
AF121243\_HBc\_P-B; AF121244\_HBc\_P-B; AF121245\_HBc\_P-B; AF121246\_HBc\_P-B;  
AF121249\_HBc\_P-B; AF233237\_HBc\_P-B; AF324086\_HBc\_P-B; AF335741\_HBc\_P-B;



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AF480339\_HBc\_P-B; AP011084\_HBc\_P-B; AP011085\_HBc\_P-B; AP011086\_HBc\_P-B;  
AP011087\_HBc\_P-B; AP011089\_HBc\_P-B; AP011090\_HBc\_P-B; AP011091\_HBc\_P-B;  
AP011092\_HBc\_P-B; AP011095\_HBc\_P-B; AP011096\_HBc\_P-B; AY033072\_HBc\_P-B;  
AY033073\_HBc\_P-B; AY167089\_HBc\_P-B; AY217359\_HBc\_P-B; AY220698\_HBc\_P-B;  
AY269091\_HBc\_P-B; AY269093\_HBc\_P-B; AY269097\_HBc\_P-B; AY269100\_HBc\_P-B;  
AY269115\_HBc\_P-B; AY269120\_HBc\_P-B; AY269131\_HBc\_P-B; AY269135\_HBc\_P-B;  
AY293309\_HBc\_P-B; AY518556\_HBc\_P-B; AY582137\_HBc\_P-B; AY596102\_HBc\_P-B;  
AY766463\_HBc\_P-B; D00330\_HBc\_P-B; D00331\_HBc\_C-B; DQ144560\_HBc\_P-B; DQ144597\_HBc\_P-B;  
DQ144599\_HBc\_P-B; DQ448619\_HBc\_P-B; DQ448620\_HBc\_P-B; DQ448621\_HBc\_P-B;  
DQ448622\_HBc\_P-B; DQ448623\_HBc\_P-B; DQ448624\_HBc\_P-B; DQ448625\_HBc\_P-B;  
DQ448627\_HBc\_P-B; DQ975271\_HBc\_P-B; DQ993694\_HBc\_P-B; DQ993696\_HBc\_P-B;  
DQ993697\_HBc\_P-B; DQ993699\_HBc\_P-B; DQ993700\_HBc\_P-B; DQ993701\_HBc\_P-B;  
DQ993702\_HBc\_P-B; DQ993703\_HBc\_P-B; DQ993706\_HBc\_P-B; DQ993708\_HBc\_P-B;  
DQ993709\_HBc\_P-B; EF473972\_HBc\_P-B; EF473975\_HBc\_P-B; EF473976\_HBc\_P-B;  
EU139543\_HBc\_P-B; EU305547\_HBc\_P-B; EU305548\_HBc\_P-B; EU306695\_HBc\_P-B;  
EU306697\_HBc\_P-B; EU306698\_HBc\_P-B; EU306700\_HBc\_P-B; EU306701\_HBc\_P-B;  
EU306702\_HBc\_P-B; EU306704\_HBc\_P-B; EU306705\_HBc\_P-B; EU306706\_HBc\_P-B;  
EU306708\_HBc\_P-B; EU306710\_HBc\_P-B; EU330989\_HBc\_P-B; EU330990\_HBc\_P-B;  
EU330992\_HBc\_P-B; EU330994\_HBc\_P-B; EU330998\_HBc\_P-B; EU330999\_HBc\_P-B;  
EU331000\_HBc\_P-B; EU331001\_HBc\_P-B; EU350409\_HBc\_P-B; EU439018\_HBc\_P-B;  
EU439022\_HBc\_P-B; EU439023\_HBc\_P-B; EU570071\_HBc\_P-B; EU595031\_HBc\_P-B;  
EU796067\_HBc\_P-B; EU796068\_HBc\_P-B; FJ023569\_HBc\_P-B; FJ023632\_HBc\_P-B; FJ023634\_HBc\_P-B;  
FJ023635\_HBc\_P-B; FJ023638\_HBc\_P-B; FJ032354\_HBc\_P-B; FJ349236\_HBc\_P-B;  
FJ386582\_HBc\_P-B; FJ386583\_HBc\_P-B; FJ386584\_HBc\_P-B; FJ386634\_HBc\_P-B; FJ386642\_HBc\_P-B;  
FJ386655\_HBc\_P-B; FJ386666\_HBc\_P-B; FJ386668\_HBc\_P-B; FJ518812\_HBc\_P-B; FJ787444\_HBc\_P-B;  
GQ205440\_HBc\_P-B; GQ358136\_HBc\_P-B; GQ358138\_HBc\_P-B; GQ358141\_HBc\_P-B;  
GQ358142\_HBc\_P-B; GQ358149\_HBc\_P-B; GQ358150\_HBc\_P-B; GQ358151\_HBc\_P-B;  
GQ358152\_HBc\_P-B; GQ377537\_HBc\_P-B; GQ377542\_HBc\_P-B; GQ377547\_HBc\_P-B;  
GQ377558\_HBc\_P-B; GQ377561\_HBc\_P-B; GQ377566\_HBc\_P-B; GQ377568\_HBc\_P-B;  
GQ377569\_HBc\_P-B; GQ377588\_HBc\_P-B; GQ377612\_HBc\_P-B; GQ377629\_HBc\_P-B;  
GQ377638\_HBc\_P-B; GQ377639\_HBc\_P-B; GQ377641\_HBc\_P-B; GQ377643\_HBc\_P-B;  
GQ855522\_HBc\_P-B; GQ855532\_HBc\_P-B; GQ924603\_HBc\_P-B; GQ924608\_HBc\_P-B;  
GQ924621\_HBc\_P-B; GQ924627\_HBc\_P-B; GQ924631\_HBc\_P-B; GQ924634\_HBc\_P-B;  
GQ924640\_HBc\_P-B; GQ924651\_HBc\_P-B; GQ924653\_HBc\_P-B; GQ924654\_HBc\_P-B;  
GU357842\_HBc\_P-B; GU434372\_HBc\_P-B; GU434373\_HBc\_P-B; GU451682\_HBc\_P-B;  
GU815548\_HBc\_P-B; GU815549\_HBc\_P-B; GU815550\_HBc\_P-B; GU815551\_HBc\_P-B;  
GU815552\_HBc\_P-B; GU815553\_HBc\_P-B; GU815554\_HBc\_P-B; GU815555\_HBc\_P-B;  
GU815556\_HBc\_P-B; GU815557\_HBc\_P-B; GU815559\_HBc\_P-B; GU815560\_HBc\_P-B;  
GU815561\_HBc\_P-B; GU815562\_HBc\_P-B; GU815563\_HBc\_P-B; GU815564\_HBc\_P-B;  
GU815565\_HBc\_P-B; GU815566\_HBc\_P-B; GU815567\_HBc\_P-B; GU815568\_HBc\_P-B;  
GU815569\_HBc\_P-B; GU815570\_HBc\_P-B; GU815571\_HBc\_P-B; GU815573\_HBc\_P-B;  
GU815575\_HBc\_P-B; GU815576\_HBc\_P-B; GU815579\_HBc\_P-B; GU815581\_HBc\_P-B;



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GU815583\_HBc\_P-B; GU815584\_HBc\_P-B; GU815585\_HBc\_P-B; GU815586\_HBc\_P-B;  
GU815588\_HBc\_P-B; GU815590\_HBc\_P-B; GU815591\_HBc\_P-B; GU815593\_HBc\_P-B;  
GU815594\_HBc\_P-B; GU815595\_HBc\_P-B; GU815596\_HBc\_P-B; GU815597\_HBc\_P-B;  
GU815598\_HBc\_P-B; GU815599\_HBc\_P-B; GU815600\_HBc\_P-B; GU815601\_HBc\_P-B;  
GU815602\_HBc\_P-B; GU815603\_HBc\_P-B; GU815604\_HBc\_P-B; GU815606\_HBc\_P-B;  
GU815607\_HBc\_P-B; GU815608\_HBc\_P-B; GU815610\_HBc\_P-B; GU815611\_HBc\_P-B;  
GU815613\_HBc\_P-B; GU815614\_HBc\_P-B; GU815616\_HBc\_P-B; GU815617\_HBc\_P-B;  
GU815618\_HBc\_P-B; GU815620\_HBc\_P-B; GU815621\_HBc\_P-B; GU815622\_HBc\_P-B;  
GU815623\_HBc\_P-B; GU815624\_HBc\_P-B; GU815625\_HBc\_P-B; GU815626\_HBc\_P-B;  
GU815628\_HBc\_P-B; GU815629\_HBc\_P-B; GU815630\_HBc\_P-B; GU815631\_HBc\_P-B;  
GU815632\_HBc\_P-B; GU815633\_HBc\_P-B; GU815634\_HBc\_P-B; GU815636\_HBc\_P-B;  
GU815637\_HBc\_P-B; GU815638\_HBc\_P-B; GU815641\_HBc\_P-B; GU815642\_HBc\_P-B;  
GU815643\_HBc\_P-B; GU815644\_HBc\_P-B; GU815645\_HBc\_P-B; GU815646\_HBc\_P-B;  
GU815647\_HBc\_P-B; GU815648\_HBc\_P-B; GU815649\_HBc\_P-B; GU815650\_HBc\_P-B;  
GU815651\_HBc\_P-B; GU815652\_HBc\_P-B; GU815653\_HBc\_P-B; GU815654\_HBc\_P-B;  
GU815656\_HBc\_P-B; GU815658\_HBc\_P-B; GU815660\_HBc\_P-B; GU815661\_HBc\_P-B;  
GU815663\_HBc\_P-B; GU815664\_HBc\_P-B; GU815665\_HBc\_P-B; GU815666\_HBc\_P-B;  
GU815667\_HBc\_P-B; GU815669\_HBc\_P-B; GU815670\_HBc\_P-B; GU815672\_HBc\_P-B;  
GU815673\_HBc\_P-B; GU815674\_HBc\_P-B; GU815675\_HBc\_P-B; GU815679\_HBc\_P-B;  
GU815680\_HBc\_P-B; GU815681\_HBc\_P-B; GU815683\_HBc\_P-B; GU815684\_HBc\_P-B;  
GU815685\_HBc\_P-B; GU815686\_HBc\_P-B; GU815687\_HBc\_P-B; GU815688\_HBc\_P-B;  
GU815689\_HBc\_P-B; GU815691\_HBc\_P-B; GU815692\_HBc\_P-B; GU815693\_HBc\_P-B;  
GU815694\_HBc\_P-B; GU815697\_HBc\_P-B; GU815698\_HBc\_P-B; GU815702\_HBc\_P-B;  
GU815703\_HBc\_P-B; GU815704\_HBc\_P-B; GU815705\_HBc\_P-B; GU815708\_HBc\_P-B;  
GU815709\_HBc\_P-B; GU815711\_HBc\_P-B; GU815713\_HBc\_P-B; GU815715\_HBc\_P-B;  
GU815716\_HBc\_P-B; GU815717\_HBc\_P-B; GU815718\_HBc\_P-B; GU815719\_HBc\_P-B;  
GU815720\_HBc\_P-B; GU815721\_HBc\_P-B; GU815723\_HBc\_P-B; GU815724\_HBc\_P-B;  
GU815725\_HBc\_P-B; GU815726\_HBc\_P-B; GU815727\_HBc\_P-B; GU815728\_HBc\_P-B;  
GU815729\_HBc\_P-B; GU815730\_HBc\_P-B; GU815731\_HBc\_P-B; GU815732\_HBc\_P-B;  
GU815733\_HBc\_P-B; GU815734\_HBc\_P-B; GU815735\_HBc\_P-B; GU815736\_HBc\_P-B;  
GU815737\_HBc\_P-B; GU815738\_HBc\_P-B; GU815739\_HBc\_P-B; GU815740\_HBc\_P-B;  
GU815741\_HBc\_P-B; GU815742\_HBc\_P-B; GU815743\_HBc\_P-B; GU815744\_HBc\_P-B;  
GU815745\_HBc\_P-B; GU815746\_HBc\_P-B; GU815749\_HBc\_P-B; GU815750\_HBc\_P-B;  
GU815753\_HBc\_P-B; GU815755\_HBc\_P-B; GU815756\_HBc\_P-B; GU815757\_HBc\_P-B;  
GU815759\_HBc\_P-B; GU815760\_HBc\_P-B; GU815762\_HBc\_P-B; GU815765\_HBc\_P-B;  
GU815766\_HBc\_P-B; GU815767\_HBc\_P-B; GU815768\_HBc\_P-B; GU815769\_HBc\_P-B;  
GU815770\_HBc\_P-B; GU815771\_HBc\_P-B; JF412801\_HBc\_P-B; JF775480\_HBc\_P-B;  
JF775484\_HBc\_P-B; JF899335\_HBc\_P-B; JN406371\_HBc\_P-B; JN827419\_HBc\_P-B; JQ040170\_HBc\_P-  
B; JQ040173\_HBc\_P-B; JQ688405\_HBc\_P-B; JQ801471\_HBc\_P-B; JQ801479\_HBc\_P-B;  
JQ801507\_HBc\_P-B; JQ801512\_HBc\_P-B; JQ801514\_HBc\_P-B; JX429902\_HBc\_P-B; JX507215\_HBc\_P-  
B; JX869999\_HBc\_P-B; JX978431\_HBc\_P-B; KC510641\_HBc\_P-B; KC510642\_HBc\_P-B;  
KC510643\_HBc\_P-B; KC510644\_HBc\_P-B; KC510646\_HBc\_P-B; KC510647\_HBc\_P-B;



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KC510648\_HBc\_P-B; KC510649\_HBc\_P-B; KC510650\_HBc\_P-B; KC510651\_HBc\_P-B;  
KC510652\_HBc\_P-B; KC510653\_HBc\_P-B; KC510654\_HBc\_P-B; KC510655\_HBc\_P-B;  
KC510656\_HBc\_P-B; KC510657\_HBc\_P-B; KC510658\_HBc\_P-B; KC510659\_HBc\_P-B;  
KC510660\_HBc\_P-B; KC774363\_HBc\_P-B; KC774366\_HBc\_P-B; KC774369\_HBc\_P-B;  
KC774372\_HBc\_P-B; KC774373\_HBc\_P-B; KC774374\_HBc\_P-B; KC774375\_HBc\_P-B;  
KC774378\_HBc\_P-B; KC774379\_HBc\_P-B; KC774380\_HBc\_P-B; KC774381\_HBc\_P-B;  
KC774382\_HBc\_P-B; KC774384\_HBc\_P-B; KC774385\_HBc\_P-B; KC774386\_HBc\_P-B;  
KC774387\_HBc\_P-B; KC774388\_HBc\_P-B; KC774390\_HBc\_P-B; KC774391\_HBc\_P-B;  
KC774392\_HBc\_P-B; KC774393\_HBc\_P-B; KC774394\_HBc\_P-B; KC774398\_HBc\_P-B;  
KC774399\_HBc\_P-B; KC774401\_HBc\_P-B; KC774402\_HBc\_P-B; KC774403\_HBc\_P-B;  
KC774404\_HBc\_P-B; KC774407\_HBc\_P-B; KC774409\_HBc\_P-B; KC774411\_HBc\_P-B;  
KC774416\_HBc\_P-B; KC774417\_HBc\_P-B; KC774418\_HBc\_P-B; KC836830\_HBc\_P-B;  
KC836841\_HBc\_P-B; KC836843\_HBc\_P-B; KC836847\_HBc\_P-B; KC836853\_HBc\_P-B;  
KC836857\_HBc\_P-B; KC836861\_HBc\_P-B; KC836863\_HBc\_P-B; KC836864\_HBc\_P-B;  
KC836865\_HBc\_P-B; KC836874\_HBc\_P-B; KF165328\_HBc\_P-B; KJ173297\_HBc\_P-B; KJ173339\_HBc\_P-  
B; KJ173340\_HBc\_P-B; KJ173341\_HBc\_P-B; KJ173342\_HBc\_P-B; KJ173343\_HBc\_P-B;  
KJ173345\_HBc\_P-B; KJ173347\_HBc\_P-B; KJ173351\_HBc\_P-B; KJ173352\_HBc\_P-B; KJ173353\_HBc\_P-  
B; KJ173354\_HBc\_P-B; KJ173355\_HBc\_P-B; KJ173357\_HBc\_P-B; KJ173359\_HBc\_P-B;  
KJ173360\_HBc\_P-B; KJ173361\_HBc\_P-B; KJ173363\_HBc\_P-B; KJ173364\_HBc\_P-B; KJ173365\_HBc\_P-  
B; KJ173366\_HBc\_P-B; KJ173367\_HBc\_P-B; KJ173369\_HBc\_P-B; KJ173370\_HBc\_P-B;  
KJ173374\_HBc\_P-B; KJ173375\_HBc\_P-B; KJ173376\_HBc\_P-B; KJ173381\_HBc\_P-B; KJ173387\_HBc\_P-  
B; KJ173388\_HBc\_P-B; KJ173389\_HBc\_P-B; KJ173390\_HBc\_P-B; KJ173397\_HBc\_P-B;  
KJ173398\_HBc\_P-B; KJ173399\_HBc\_P-B; KJ173400\_HBc\_P-B; KJ173401\_HBc\_P-B; KJ173402\_HBc\_P-  
B; KJ173403\_HBc\_P-B; KJ173404\_HBc\_P-B; KJ173405\_HBc\_P-B; KJ173406\_HBc\_P-B;  
KJ173407\_HBc\_P-B; KJ173408\_HBc\_P-B; KJ173409\_HBc\_P-B; KJ173410\_HBc\_P-B; KJ173411\_HBc\_P-  
B; KJ173412\_HBc\_P-B; KJ173414\_HBc\_P-B; KJ173415\_HBc\_P-B; KJ173416\_HBc\_P-B;  
KJ173417\_HBc\_P-B; KJ173420\_HBc\_P-B; KJ173421\_HBc\_P-B; KJ173422\_HBc\_P-B; KJ173423\_HBc\_P-  
B; KJ173424\_HBc\_P-B; KJ173425\_HBc\_P-B; KJ410507\_HBc\_P-B; KJ410516\_HBc\_P-B;  
KJ410517\_HBc\_P-B; KJ803763\_HBc\_P-B; KM359440\_HBc\_P-B; AB014362\_HBc\_P-C;  
AB014368\_HBc\_P-C; AB014385\_HBc\_P-C; AB026811\_HBc\_P-C; AB026812\_HBc\_P-C;  
AB026814\_HBc\_P-C; AB026815\_HBc\_P-C; AB031262\_HBc\_P-C; AB033550\_HBc\_P-C;  
AB033551\_HBc\_P-C; AB033552\_HBc\_P-C; AB033556\_HBc\_P-C; AB042283\_HBc\_P-C;  
AB050018\_HBc\_P-C; AB111119\_HBc\_P-C; AB111120\_HBc\_P-C; AB113879\_HBc\_P-C;  
AB198076\_HBc\_P-C; AB198077\_HBc\_P-C; AB198078\_HBc\_P-C; AB198079\_HBc\_P-C;  
AB198080\_HBc\_P-C; AB198081\_HBc\_P-C; AB198082\_HBc\_P-C; AB198083\_HBc\_P-C;  
AB205123\_HBc\_P-C; AB222714\_HBc\_P-C; AB222715\_HBc\_P-C; AB241110\_HBc\_P-C;  
AB241111\_HBc\_P-C; AB246345\_HBc\_P-C; AB247916\_HBc\_P-C; AB299858\_HBc\_P-C;  
AB300359\_HBc\_P-C; AB300362\_HBc\_P-C; AB300363\_HBc\_P-C; AB300365\_HBc\_P-C;  
AB362932\_HBc\_P-C; AB367394\_HBc\_P-C; AB367396\_HBc\_P-C; AB367397\_HBc\_P-C;  
AB367399\_HBc\_P-C; AB367403\_HBc\_P-C; AB367404\_HBc\_P-C; AB367409\_HBc\_P-C;  
AB367411\_HBc\_P-C; AB367417\_HBc\_P-C; AB367427\_HBc\_P-C; AB426467\_HBc\_P-C;  
AB471848\_HBc\_P-C; AB471850\_HBc\_P-C; AB471852\_HBc\_P-C; AB471853\_HBc\_P-C;



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AB485808\_HBc\_P-C; AB640730\_HBc\_P-C; AB642100\_HBc\_P-C; AB670238\_HBc\_P-C;  
AB670247\_HBc\_P-C; AB670267\_HBc\_P-C; AB670282\_HBc\_P-C; AB670283\_HBc\_P-C;  
AB670287\_HBc\_P-C; AB670292\_HBc\_P-C; AB670294\_HBc\_P-C; AB670305\_HBc\_P-C;  
AB670307\_HBc\_P-C; AB675674\_HBc\_P-C; AB675675\_HBc\_P-C; AB675677\_HBc\_P-C;  
AB697490\_HBc\_P-C; AB697500\_HBc\_P-C; AB900116\_HBc\_P-C; AF068756\_HBc\_P-C;  
AF223954\_HBc\_P-C; AF223955\_HBc\_P-C; AF223956\_HBc\_P-C; AF223957\_HBc\_P-C;  
AF223958\_HBc\_P-C; AF223959\_HBc\_P-C; AF286594\_HBc\_P-C; AF324081\_HBc\_P-C;  
AF384364\_HBc\_P-C; AF384365\_HBc\_P-C; AF384366\_HBc\_P-C; AF473543\_HBc\_P-C;  
AJ748098\_HBc\_P-C; AP011097\_HBc\_P-C; AP011098\_HBc\_P-C; AP011099\_HBc\_P-C;  
AP011100\_HBc\_P-C; AP011101\_HBc\_P-C; AP011106\_HBc\_P-C; AP011107\_HBc\_P-C;  
AY057947\_HBc\_P-C; AY167099\_HBc\_P-C; AY206384\_HBc\_P-C; AY596107\_HBc\_P-C;  
AY641560\_HBc\_P-C; D12980\_HBc\_P-C; D23680\_HBc\_P-C; D50519\_HBc\_P-C; DQ089758\_HBc\_P-C;  
DQ089763\_HBc\_P-C; DQ089765\_HBc\_P-C; DQ089769\_HBc\_P-C; DQ089779\_HBc\_P-C;  
DQ089781\_HBc\_P-C; DQ089783\_HBc\_P-C; DQ089789\_HBc\_P-C; DQ089793\_HBc\_P-C;  
DQ246215\_HBc\_P-C; DQ315781\_HBc\_P-C; DQ315783\_HBc\_P-C; DQ377161\_HBc\_P-C;  
DQ377163\_HBc\_P-C; DQ922650\_HBc\_P-C; DQ993690\_HBc\_P-C; DQ993693\_HBc\_P-C;  
EF688062\_HBc\_P-C; EU305540\_HBc\_P-C; EU306673\_HBc\_P-C; EU306685\_HBc\_P-C;  
EU306688\_HBc\_P-C; EU306689\_HBc\_P-C; EU306690\_HBc\_P-C; EU306691\_HBc\_P-C;  
EU306694\_HBc\_P-C; EU306713\_HBc\_P-C; EU306714\_HBc\_P-C; EU306720\_HBc\_P-C;  
EU306721\_HBc\_P-C; EU306725\_HBc\_P-C; EU306727\_HBc\_P-C; EU306729\_HBc\_P-C;  
EU410080\_HBc\_P-C; EU410081\_HBc\_P-C; EU554535\_HBc\_P-C; EU554537\_HBc\_P-C;  
EU554538\_HBc\_P-C; EU554542\_HBc\_P-C; EU562215\_HBc\_P-C; EU562217\_HBc\_P-C;  
EU562218\_HBc\_P-C; EU570068\_HBc\_P-C; EU589345\_HBc\_P-C; EU871975\_HBc\_P-C;  
EU871977\_HBc\_P-C; EU871982\_HBc\_P-C; EU872008\_HBc\_P-C; EU872010\_HBc\_P-C;  
EU881996\_HBc\_P-C; EU916211\_HBc\_P-C; EU916217\_HBc\_P-C; EU916224\_HBc\_P-C;  
EU916225\_HBc\_P-C; EU916237\_HBc\_P-C; EU916238\_HBc\_P-C; EU939549\_HBc\_P-C;  
EU939580\_HBc\_P-C; EU939600\_HBc\_P-C; EU939604\_HBc\_P-C; EU939619\_HBc\_P-C;  
FJ023571\_HBc\_P-C; FJ023641\_HBc\_P-C; FJ023642\_HBc\_P-C; FJ023643\_HBc\_P-C; FJ023644\_HBc\_P-C;  
FJ023646\_HBc\_P-C; FJ023647\_HBc\_P-C; FJ023649\_HBc\_P-C; FJ023650\_HBc\_P-C; FJ023653\_HBc\_P-C;  
FJ023654\_HBc\_P-C; FJ023656\_HBc\_P-C; FJ023657\_HBc\_P-C; FJ023658\_HBc\_P-C; FJ032331\_HBc\_P-C;  
FJ032332\_HBc\_P-C; FJ032333\_HBc\_P-C; FJ032336\_HBc\_P-C; FJ032339\_HBc\_P-C; FJ032340\_HBc\_P-C;  
FJ032341\_HBc\_P-C; FJ032345\_HBc\_P-C; FJ032350\_HBc\_P-C; FJ032361\_HBc\_P-C; FJ349225\_HBc\_P-C;  
FJ386575\_HBc\_P-C; FJ386577\_HBc\_P-C; FJ386587\_HBc\_P-C; FJ386588\_HBc\_P-C; FJ386591\_HBc\_P-C;  
FJ386597\_HBc\_P-C; FJ386607\_HBc\_P-C; FJ386619\_HBc\_P-C; FJ386623\_HBc\_P-C; FJ386639\_HBc\_P-C;  
FJ386664\_HBc\_P-C; FJ386665\_HBc\_P-C; FJ386667\_HBc\_P-C; FJ386678\_HBc\_P-C; FJ518813\_HBc\_P-C;  
FJ562218\_HBc\_P-C; FJ562242\_HBc\_P-C; FJ562244\_HBc\_P-C; FJ562245\_HBc\_P-C; FJ562258\_HBc\_P-C;  
FJ562269\_HBc\_P-C; FJ562274\_HBc\_P-C; FJ562275\_HBc\_P-C; FJ562282\_HBc\_P-C; FJ562283\_HBc\_P-C;  
FJ562297\_HBc\_P-C; FJ562298\_HBc\_P-C; FJ562320\_HBc\_P-C; FJ562323\_HBc\_P-C; FJ715341\_HBc\_P-C;  
FJ715342\_HBc\_P-C; FJ715352\_HBc\_P-C; FJ715353\_HBc\_P-C; FJ715355\_HBc\_P-C; FJ715358\_HBc\_P-C;  
FJ715365\_HBc\_P-C; FJ715370\_HBc\_P-C; FJ715371\_HBc\_P-C; FJ715374\_HBc\_P-C; FJ715377\_HBc\_P-C;  
FJ715378\_HBc\_P-C; FJ715379\_HBc\_P-C; FJ715380\_HBc\_P-C; FJ715382\_HBc\_P-C; FJ715395\_HBc\_P-C;  
FJ715397\_HBc\_P-C; FJ715398\_HBc\_P-C; FJ715400\_HBc\_P-C; FJ715402\_HBc\_P-C; FJ715405\_HBc\_P-C;





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FJ715407\_HBc\_P-C; FJ715409\_HBc\_P-C; FJ751770\_HBc\_P-C; FJ787441\_HBc\_P-C; FJ787447\_HBc\_P-C;  
FJ787453\_HBc\_P-C; FJ787454\_HBc\_P-C; FJ787479\_HBc\_P-C; FJ899763\_HBc\_P-C; FJ899775\_HBc\_P-C;  
GQ205441\_HBc\_P-C; GQ358154\_HBc\_P-C; GQ358158\_HBc\_C-C; GQ377514\_HBc\_P-C;  
GQ377515\_HBc\_P-C; GQ377517\_HBc\_P-C; GQ377523\_HBc\_P-C; GQ377524\_HBc\_P-C;  
GQ377527\_HBc\_P-C; GQ377528\_HBc\_P-C; GQ377529\_HBc\_P-C; GQ377531\_HBc\_P-C;  
GQ377533\_HBc\_P-C; GQ377535\_HBc\_P-C; GQ377536\_HBc\_P-C; GQ377538\_HBc\_P-C;  
GQ377540\_HBc\_P-C; GQ377541\_HBc\_P-C; GQ377546\_HBc\_P-C; GQ377551\_HBc\_P-C;  
GQ377553\_HBc\_P-C; GQ377554\_HBc\_P-C; GQ377559\_HBc\_P-C; GQ377562\_HBc\_P-C;  
GQ377563\_HBc\_P-C; GQ377570\_HBc\_P-C; GQ377571\_HBc\_P-C; GQ377572\_HBc\_P-C;  
GQ377574\_HBc\_P-C; GQ377576\_HBc\_P-C; GQ377578\_HBc\_P-C; GQ377579\_HBc\_P-C;  
GQ377580\_HBc\_P-C; GQ377584\_HBc\_P-C; GQ377585\_HBc\_P-C; GQ377591\_HBc\_P-C;  
GQ377598\_HBc\_P-C; GQ377600\_HBc\_P-C; GQ377601\_HBc\_P-C; GQ377603\_HBc\_P-C;  
GQ377615\_HBc\_P-C; GQ377616\_HBc\_P-C; GQ377617\_HBc\_P-C; GQ377618\_HBc\_P-C;  
GQ377619\_HBc\_P-C; GQ377624\_HBc\_P-C; GQ377631\_HBc\_P-C; GQ377637\_HBc\_P-C;  
GQ377640\_HBc\_P-C; GQ377642\_HBc\_P-C; GQ475305\_HBc\_P-C; GQ475306\_HBc\_P-C;  
GQ475307\_HBc\_P-C; GQ475308\_HBc\_P-C; GQ475310\_HBc\_P-C; GQ475311\_HBc\_P-C;  
GQ475312\_HBc\_P-C; GQ475313\_HBc\_P-C; GQ475314\_HBc\_P-C; GQ475315\_HBc\_P-C;  
GQ475316\_HBc\_P-C; GQ475317\_HBc\_P-C; GQ475319\_HBc\_P-C; GQ475324\_HBc\_P-C;  
GQ475327\_HBc\_P-C; GQ475328\_HBc\_P-C; GQ475329\_HBc\_P-C; GQ475330\_HBc\_P-C;  
GQ475331\_HBc\_P-C; GQ475333\_HBc\_P-C; GQ475334\_HBc\_P-C; GQ475338\_HBc\_P-C;  
GQ475339\_HBc\_P-C; GQ475345\_HBc\_P-C; GQ475346\_HBc\_P-C; GQ475347\_HBc\_P-C;  
GQ475348\_HBc\_P-C; GQ475350\_HBc\_P-C; GQ475354\_HBc\_P-C; GQ855523\_HBc\_P-C;  
GQ855525\_HBc\_P-C; GQ855534\_HBc\_P-C; GQ855544\_HBc\_P-C; GQ855548\_HBc\_P-C;  
GQ924604\_HBc\_P-C; GQ924614\_HBc\_P-C; GQ924620\_HBc\_C-C; GQ924633\_HBc\_P-C;  
GQ924649\_HBc\_P-C; GU434374\_HBc\_P-C; GU563561\_HBc\_P-C; HM011465\_HBc\_P-C;  
HM011489\_HBc\_P-C; HM750131\_HBc\_P-C; HM750132\_HBc\_P-C; HM750136\_HBc\_P-C;  
HM750137\_HBc\_P-C; HM750138\_HBc\_P-C; HM750139\_HBc\_P-C; HM750140\_HBc\_P-C;  
JF828913\_HBc\_P-C; JF828915\_HBc\_P-C; JF828916\_HBc\_P-C; JF828917\_HBc\_P-C; JF828918\_HBc\_P-C;  
JF828919\_HBc\_P-C; JF828920\_HBc\_P-C; JF899336\_HBc\_P-C; JN104432\_HBc\_P-C; JN104433\_HBc\_P-  
C; JN104440\_HBc\_P-C; JN827414\_HBc\_P-C; JN827415\_HBc\_P-C; JN827417\_HBc\_P-C;  
JN827418\_HBc\_P-C; JN827420\_HBc\_P-C; JN827421\_HBc\_P-C; JN827422\_HBc\_P-C; JN827423\_HBc\_P-  
C; JN827424\_HBc\_P-C; JN827425\_HBc\_P-C; JQ040133\_HBc\_P-C; JQ040162\_HBc\_P-C;  
JQ040163\_HBc\_P-C; JQ688403\_HBc\_P-C; JQ688404\_HBc\_P-C; JQ801470\_HBc\_P-C;  
JQ801475\_HBc\_P-C; JQ801482\_HBc\_P-C; JQ801486\_HBc\_P-C; JQ801488\_HBc\_P-C;  
JQ801496\_HBc\_P-C; JQ801497\_HBc\_P-C; JQ801501\_HBc\_P-C; JQ801504\_HBc\_P-C;  
JQ801505\_HBc\_P-C; JQ801511\_HBc\_P-C; JQ801513\_HBc\_P-C; JQ801519\_HBc\_P-C; JX036338\_HBc\_P-  
C; JX429904\_HBc\_P-C; JX429906\_HBc\_P-C; JX429907\_HBc\_P-C; JX429909\_HBc\_P-C;  
JX429912\_HBc\_P-C; JX429913\_HBc\_P-C; JX429915\_HBc\_P-C; JX429916\_HBc\_P-C; JX429917\_HBc\_P-  
C; JX504537\_HBc\_P-C; JX504544\_HBc\_P-C; JX504545\_HBc\_P-C; JX504546\_HBc\_P-C;  
KC774180\_HBc\_P-C; KC774181\_HBc\_P-C; KC774184\_HBc\_P-C; KC774185\_HBc\_P-C;  
KC774187\_HBc\_P-C; KC774189\_HBc\_P-C; KC774190\_HBc\_P-C; KC774191\_HBc\_P-C;  
KC774192\_HBc\_P-C; KC774196\_HBc\_P-C; KC774197\_HBc\_P-C; KC774200\_HBc\_P-C;



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KC774202\_HBc\_P-C; KC774203\_HBc\_P-C; KC774204\_HBc\_P-C; KC774205\_HBc\_P-C;  
KC774206\_HBc\_P-C; KC774208\_HBc\_P-C; KC774209\_HBc\_P-C; KC774210\_HBc\_P-C;  
KC774213\_HBc\_P-C; KC774214\_HBc\_P-C; KC774215\_HBc\_P-C; KC774216\_HBc\_P-C;  
KC774219\_HBc\_P-C; KC774220\_HBc\_P-C; KC774223\_HBc\_P-C; KC774224\_HBc\_P-C;  
KC774228\_HBc\_P-C; KC774229\_HBc\_P-C; KC774231\_HBc\_P-C; KC774232\_HBc\_P-C;  
KC774233\_HBc\_P-C; KC774235\_HBc\_P-C; KC774236\_HBc\_P-C; KC774237\_HBc\_P-C;  
KC774238\_HBc\_P-C; KC774239\_HBc\_P-C; KC774241\_HBc\_P-C; KC774242\_HBc\_P-C;  
KC774244\_HBc\_P-C; KC774248\_HBc\_P-C; KC774249\_HBc\_P-C; KC774250\_HBc\_P-C;  
KC774254\_HBc\_P-C; KC774255\_HBc\_P-C; KC774256\_HBc\_P-C; KC774257\_HBc\_P-C;  
KC774260\_HBc\_P-C; KC774261\_HBc\_P-C; KC774262\_HBc\_P-C; KC774265\_HBc\_P-C;  
KC774266\_HBc\_P-C; KC774267\_HBc\_P-C; KC774268\_HBc\_P-C; KC774270\_HBc\_P-C;  
KC774271\_HBc\_P-C; KC774272\_HBc\_P-C; KC774274\_HBc\_P-C; KC774276\_HBc\_P-C;  
KC774277\_HBc\_P-C; KC774280\_HBc\_P-C; KC774281\_HBc\_P-C; KC774283\_HBc\_P-C;  
KC774285\_HBc\_P-C; KC774287\_HBc\_P-C; KC774289\_HBc\_P-C; KC774290\_HBc\_P-C;  
KC774292\_HBc\_P-C; KC774293\_HBc\_P-C; KC774295\_HBc\_P-C; KC774298\_HBc\_P-C;  
KC774299\_HBc\_P-C; KC774303\_HBc\_P-C; KC774304\_HBc\_P-C; KC774308\_HBc\_P-C;  
KC774309\_HBc\_P-C; KC774310\_HBc\_P-C; KC774312\_HBc\_P-C; KC774315\_HBc\_P-C;  
KC774318\_HBc\_P-C; KC774325\_HBc\_P-C; KC774327\_HBc\_P-C; KC774329\_HBc\_P-C;  
KC774330\_HBc\_P-C; KC774333\_HBc\_P-C; KC774335\_HBc\_P-C; KC774336\_HBc\_P-C;  
KC774337\_HBc\_P-C; KC774339\_HBc\_P-C; KC774342\_HBc\_P-C; KC774343\_HBc\_P-C;  
KC774347\_HBc\_P-C; KC774348\_HBc\_P-C; KC774351\_HBc\_P-C; KC774356\_HBc\_P-C;  
KC774359\_HBc\_P-C; KC774360\_HBc\_P-C; KC875262\_HBc\_P-C; KC875267\_HBc\_P-C;  
KC875270\_HBc\_P-C; KC875272\_HBc\_P-C; KF485389\_HBc\_P-C; KF495606\_HBc\_P-C;  
KJ173281\_HBc\_P-C; KJ173282\_HBc\_P-C; KJ173283\_HBc\_P-C; KJ173284\_HBc\_P-C; KJ173286\_HBc\_P-  
C; KJ173287\_HBc\_P-C; KJ173288\_HBc\_P-C; KJ173289\_HBc\_P-C; KJ173291\_HBc\_P-C;  
KJ173292\_HBc\_P-C; KJ173293\_HBc\_P-C; KJ173294\_HBc\_P-C; KJ173296\_HBc\_P-C; KJ173301\_HBc\_P-  
C; KJ173303\_HBc\_P-C; KJ173304\_HBc\_P-C; KJ173305\_HBc\_P-C; KJ173306\_HBc\_P-C;  
KJ173307\_HBc\_P-C; KJ173308\_HBc\_P-C; KJ173309\_HBc\_P-C; KJ173310\_HBc\_P-C; KJ173312\_HBc\_P-  
C; KJ173313\_HBc\_P-C; KJ173314\_HBc\_P-C; KJ173315\_HBc\_P-C; KJ173321\_HBc\_P-C;  
KJ173324\_HBc\_P-C; KJ173327\_HBc\_P-C; KJ173328\_HBc\_P-C; KJ173331\_HBc\_P-C; KJ173332\_HBc\_P-  
C; KJ173333\_HBc\_P-C; KJ173335\_HBc\_P-C; KJ173336\_HBc\_P-C; KJ173391\_HBc\_P-C;  
KJ173392\_HBc\_P-C; KJ173395\_HBc\_P-C; KJ173396\_HBc\_P-C; KJ173426\_HBc\_P-C; KJ173427\_HBc\_P-  
C; KJ173428\_HBc\_P-C; KJ173433\_HBc\_P-C; KJ173434\_HBc\_P-C; KJ173435\_HBc\_P-C;  
KJ173436\_HBc\_P-C; KJ173437\_HBc\_P-C; KJ173438\_HBc\_P-C; KJ173439\_HBc\_P-C; KJ173440\_HBc\_P-  
C; KJ173441\_HBc\_P-C; KJ173442\_HBc\_P-C; KJ173443\_HBc\_P-C; KJ173444\_HBc\_P-C;  
KJ173446\_HBc\_P-C; KJ410495\_HBc\_P-C; KJ410501\_HBc\_P-C; KJ410504\_HBc\_P-C; KJ410513\_HBc\_P-  
C; KJ410519\_HBc\_P-C; KJ598635\_HBc\_P-C; KJ598636\_HBc\_P-C; KJ598640\_HBc\_P-C;  
KJ598641\_HBc\_P-C; KJ598659\_HBc\_P-C; KJ598688\_HBc\_P-C; KJ598689\_HBc\_P-C; KJ598690\_HBc\_P-  
C; KJ598694\_HBc\_P-C; KJ598695\_HBc\_P-C; KJ598696\_HBc\_P-C; KJ598697\_HBc\_P-C;  
KJ598698\_HBc\_P-C; KJ598699\_HBc\_P-C; KJ598701\_HBc\_P-C; KJ598710\_HBc\_P-C; KJ598716\_HBc\_P-  
C; KJ598740\_HBc\_P-C; KJ598749\_HBc\_P-C; KJ598753\_HBc\_P-C; KJ803759\_HBc\_P-C;  
KJ803792\_HBc\_P-C; KJ803793\_HBc\_P-C; KJ803799\_HBc\_P-C; KJ803811\_HBc\_P-C; KJ803818\_HBc\_P-



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C; KM213037\_HBc\_P-C; KM229703\_HBc\_P-C; KM999990\_HBc\_P-C; KM999991\_HBc\_P-C;  
KM999992\_HBc\_P-C; KP017266\_HBc\_P-C; KP017267\_HBc\_P-C; KP017268\_HBc\_P-C;  
KP017269\_HBc\_P-C; KP017270\_HBc\_P-C; KP017271\_HBc\_P-C; KP017272\_HBc\_P-C;  
KP027477\_HBc\_P-C; V00867\_HBc\_P-C; X04615\_HBc\_P-C; AB090270\_HBc\_P-D; AB104709\_HBc\_P-D;  
AB104711\_HBc\_P-D; AB104712\_HBc\_P-D; AB109475\_HBc\_P-D; AB109476\_HBc\_P-D;  
AB116266\_HBc\_P-D; AB205126\_HBc\_P-D; AB205127\_HBc\_P-D; AB222711\_HBc\_P-D;  
AB222712\_HBc\_P-D; AB222713\_HBc\_P-D; AB246347\_HBc\_P-D; AB246348\_HBc\_P-D;  
AB270543\_HBc\_P-D; AB330369\_HBc\_P-D; AB330370\_HBc\_P-D; AB471856\_HBc\_P-D;  
AB471857\_HBc\_P-D; AB493846\_HBc\_P-D; AB583680\_HBc\_P-D; AB674407\_HBc\_P-D;  
AF121240\_HBc\_C-D; AF121241\_HBc\_P-D; AF280817\_HBc\_P-D; AF324108\_HBc\_P-D;  
AF324114\_HBc\_P-D; AF324115\_HBc\_P-D; AF324116\_HBc\_P-D; AF324132\_HBc\_P-D;  
AF324138\_HBc\_P-D; AJ131956\_HBc\_P-D; AJ627220\_HBc\_P-D; AJ627223\_HBc\_P-D;  
AY230112\_HBc\_P-D; AY233291\_HBc\_P-D; AY350614\_HBc\_P-D; AY371901\_HBc\_P-D;  
AY371902\_HBc\_P-D; AY371905\_HBc\_P-D; AY371907\_HBc\_P-D; AY371914\_HBc\_P-D;  
AY371920\_HBc\_P-D; AY371921\_HBc\_P-D; AY371922\_HBc\_P-D; AY603428\_HBc\_P-D;  
AY603437\_HBc\_P-D; AY603439\_HBc\_P-D; AY603440\_HBc\_P-D; AY603443\_HBc\_P-D;  
AY661792\_HBc\_P-D; AY661793\_HBc\_P-D; AY721606\_HBc\_P-D; AY721609\_HBc\_P-D;  
AY721610\_HBc\_P-D; AY721612\_HBc\_P-D; DQ178018\_HBc\_P-D; DQ178019\_HBc\_P-D;  
DQ315776\_HBc\_P-D; DQ464169\_HBc\_P-D; EF103275\_HBc\_P-D; EF103277\_HBc\_P-D;  
EF103280\_HBc\_P-D; EU414058\_HBc\_P-D; EU414060\_HBc\_P-D; EU414136\_HBc\_P-D;  
EU414140\_HBc\_P-D; EU594382\_HBc\_P-D; EU594396\_HBc\_P-D; EU594397\_HBc\_P-D;  
EU594400\_HBc\_P-D; EU594401\_HBc\_P-D; EU594402\_HBc\_P-D; EU594403\_HBc\_P-D;  
EU594405\_HBc\_P-D; EU594407\_HBc\_P-D; EU594409\_HBc\_P-D; EU594410\_HBc\_P-D;  
EU594415\_HBc\_P-D; EU594416\_HBc\_P-D; EU594421\_HBc\_P-D; EU594423\_HBc\_P-D;  
EU594424\_HBc\_P-D; EU594425\_HBc\_P-D; EU594426\_HBc\_P-D; EU594427\_HBc\_P-D;  
EU594428\_HBc\_P-D; EU594430\_HBc\_P-D; EU594431\_HBc\_P-D; EU594432\_HBc\_P-D;  
EU594433\_HBc\_P-D; EU726854\_HBc\_P-D; EU726862\_HBc\_P-D; EU726869\_HBc\_P-D;  
EU726874\_HBc\_P-D; EU726878\_HBc\_P-D; EU726887\_HBc\_P-D; EU726888\_HBc\_P-D;  
EU726894\_HBc\_P-D; EU726895\_HBc\_P-D; EU726898\_HBc\_P-D; EU726900\_HBc\_P-D;  
EU726902\_HBc\_P-D; EU726907\_HBc\_P-D; EU726909\_HBc\_P-D; EU726914\_HBc\_P-D;  
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EU726930\_HBc\_P-D; EU726940\_HBc\_P-D; EU726962\_HBc\_P-D; EU726964\_HBc\_P-D;  
EU726967\_HBc\_P-D; EU726971\_HBc\_P-D; EU726972\_HBc\_P-D; EU726976\_HBc\_P-D;  
EU787437\_HBc\_P-D; EU787440\_HBc\_P-D; EU787441\_HBc\_P-D; EU787442\_HBc\_P-D;  
EU787445\_HBc\_P-D; EU787446\_HBc\_P-D; EU787447\_HBc\_P-D; EU939680\_HBc\_P-D;  
FJ349205\_HBc\_P-D; FJ349209\_HBc\_P-D; FJ349218\_HBc\_P-D; FJ349228\_HBc\_P-D; FJ349229\_HBc\_P-  
D; FJ349232\_HBc\_P-D; FJ386590\_HBc\_P-D; FJ692506\_HBc\_P-D; FJ692507\_HBc\_P-D;  
FJ904443\_HBc\_P-D; GQ183471\_HBc\_P-D; GQ183472\_HBc\_P-D; GQ183476\_HBc\_P-D;  
GQ183477\_HBc\_P-D; GQ183478\_HBc\_P-D; GQ183479\_HBc\_P-D; GQ183480\_HBc\_P-D;  
GQ183481\_HBc\_P-D; GQ183482\_HBc\_P-D; GQ183483\_HBc\_P-D; GQ183484\_HBc\_P-D;  
GQ377589\_HBc\_P-D; GQ477459\_HBc\_P-D; GQ922002\_HBc\_P-D; GU357846\_HBc\_P-D;  
HM042267\_HBc\_P-D; HM042272\_HBc\_P-D; HM042273\_HBc\_P-D; HM042276\_HBc\_P-D;



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HM042277\_HBc\_P-D; HM042283\_HBc\_P-D; HM750151\_HBc\_P-D; HM750153\_HBc\_P-D;  
HM750154\_HBc\_P-D; HM750156\_HBc\_P-D; HQ700440\_HBc\_P-D; HQ700441\_HBc\_P-D;  
HQ700442\_HBc\_P-D; HQ700443\_HBc\_P-D; HQ700445\_HBc\_P-D; HQ700446\_HBc\_P-D;  
HQ700447\_HBc\_P-D; HQ700449\_HBc\_P-D; HQ700450\_HBc\_P-D; HQ700454\_HBc\_P-D;  
HQ700459\_HBc\_P-D; HQ700464\_HBc\_P-D; HQ700466\_HBc\_P-D; HQ700469\_HBc\_P-D;  
HQ700471\_HBc\_P-D; HQ700479\_HBc\_P-D; HQ700480\_HBc\_P-D; HQ700482\_HBc\_P-D;  
HQ700484\_HBc\_P-D; HQ700487\_HBc\_P-D; HQ700488\_HBc\_P-D; HQ700511\_HBc\_P-D;  
HQ700512\_HBc\_P-D; HQ700513\_HBc\_P-D; HQ700514\_HBc\_P-D; HQ833465\_HBc\_P-D;  
HQ833467\_HBc\_P-D; HQ833470\_HBc\_P-D; HQ833471\_HBc\_P-D; JF754591\_HBc\_P-D;  
JF754601\_HBc\_P-D; JF754624\_HBc\_P-D; JF754628\_HBc\_P-D; JN040759\_HBc\_P-D; JN040786\_HBc\_P-D;  
JN040805\_HBc\_P-D; JN040806\_HBc\_P-D; JN040807\_HBc\_P-D; JN040823\_HBc\_P-D;  
JN040826\_HBc\_P-D; JN040827\_HBc\_P-D; JN257150\_HBc\_P-D; JN257151\_HBc\_P-D;  
JN257155\_HBc\_P-D; JN257171\_HBc\_P-D; JN257181\_HBc\_P-D; JN257182\_HBc\_P-D;  
JN257185\_HBc\_P-D; JN257193\_HBc\_P-D; JN257194\_HBc\_P-D; JN257196\_HBc\_P-D;  
JN257199\_HBc\_P-D; JN642131\_HBc\_P-D; JN664911\_HBc\_P-D; JN664912\_HBc\_P-D;  
JN664913\_HBc\_P-D; JN664917\_HBc\_P-D; JN664927\_HBc\_P-D; JN664930\_HBc\_P-D;  
JN664936\_HBc\_P-D; JN664937\_HBc\_P-D; JN664938\_HBc\_P-D; JN792909\_HBc\_P-D;  
JN792910\_HBc\_P-D; JQ287601\_HBc\_P-D; JQ287602\_HBc\_P-D; JQ287603\_HBc\_P-D;  
JQ287604\_HBc\_P-D; JQ287605\_HBc\_P-D; JQ287606\_HBc\_P-D; JQ287607\_HBc\_P-D;  
JQ287608\_HBc\_P-D; JQ287609\_HBc\_P-D; JQ287610\_HBc\_P-D; JQ287611\_HBc\_P-D;  
JQ287612\_HBc\_P-D; JQ287613\_HBc\_P-D; JQ287614\_HBc\_P-D; JQ287615\_HBc\_P-D;  
JQ287616\_HBc\_P-D; JQ287617\_HBc\_P-D; JQ287618\_HBc\_P-D; JQ287620\_HBc\_P-D;  
JQ287621\_HBc\_P-D; JQ707477\_HBc\_P-D; JQ707492\_HBc\_P-D; JQ707495\_HBc\_P-D;  
JQ707510\_HBc\_P-D; JX096954\_HBc\_P-D; JX096956\_HBc\_P-D; JX096957\_HBc\_P-D; JX096958\_HBc\_P-D;  
JX310733\_HBc\_P-D; JX898689\_HBc\_P-D; JX898691\_HBc\_P-D; JX898692\_HBc\_P-D;  
JX898694\_HBc\_P-D; JX898697\_HBc\_P-D; KC774437\_HBc\_P-D; KC774440\_HBc\_P-D;  
KC774444\_HBc\_P-D; KC774462\_HBc\_P-D; KC875275\_HBc\_P-D; KC875277\_HBc\_P-D;  
KC875279\_HBc\_P-D; KC875280\_HBc\_P-D; KC875281\_HBc\_P-D; KC875282\_HBc\_P-D;  
KC875283\_HBc\_P-D; KC875285\_HBc\_P-D; KC875286\_HBc\_P-D; KC875288\_HBc\_P-D;  
KC875291\_HBc\_P-D; KC875293\_HBc\_P-D; KC875294\_HBc\_P-D; KC875303\_HBc\_P-D;  
KC875310\_HBc\_P-D; KC875311\_HBc\_P-D; KC875319\_HBc\_P-D; KC875321\_HBc\_P-D;  
KC875325\_HBc\_P-D; KC875332\_HBc\_P-D; KC875335\_HBc\_P-D; KC875336\_HBc\_P-D;  
KF018180\_HBc\_P-D; KF018184\_HBc\_P-D; KF018191\_HBc\_P-D; KF471647\_HBc\_P-D;  
KF471651\_HBc\_P-D; KF471652\_HBc\_P-D; KF584162\_HBc\_P-D; KF584164\_HBc\_P-D;  
KF584166\_HBc\_P-D; KF679989\_HBc\_P-D; KF679992\_HBc\_P-D; KF679993\_HBc\_P-D;  
KF679994\_HBc\_P-D; KF679996\_HBc\_P-D; KF679997\_HBc\_P-D; KF679998\_HBc\_P-D;  
KF779209\_HBc\_P-D; KF779212\_HBc\_P-D; KF779214\_HBc\_P-D; KF779217\_HBc\_P-D;  
KF779222\_HBc\_P-D; KF779223\_HBc\_P-D; KF779228\_HBc\_P-D; KF779230\_HBc\_P-D;  
KF779285\_HBc\_P-D; KF779288\_HBc\_P-D; KF779292\_HBc\_P-D; KF779296\_HBc\_P-D;  
KF779302\_HBc\_P-D; KF779303\_HBc\_P-D; KF779318\_HBc\_P-D; KF779340\_HBc\_P-D;  
KF779341\_HBc\_P-D; KF779376\_HBc\_P-D; KF779377\_HBc\_P-D; KF798260\_HBc\_P-D;  
KF798273\_HBc\_P-D; KF798282\_HBc\_P-D; KF798283\_HBc\_P-D; KF798306\_HBc\_P-D;



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KF798307\_HBc\_P-D; KF896606\_HBc\_P-D; LK995395\_HBc\_P-D; V01460\_HBc\_P-D; X72702\_HBc\_P-D;  
X85294\_HBc\_P-D; X85297\_HBc\_P-D; Y07587\_HBc\_P-D; Z35716\_HBc\_P-D; AB091255\_HBc\_P-E;  
AB091256\_HBc\_P-E; AB106564\_HBc\_C-E; AB194947\_HBc\_P-E; AB201287\_HBc\_P-E;  
AB201288\_HBc\_P-E; AB201289\_HBc\_P-E; AB205129\_HBc\_P-E; AB205189\_HBc\_P-E;  
AB205191\_HBc\_P-E; AB205192\_HBc\_P-E; AB274969\_HBc\_P-E; AB274970\_HBc\_P-E;  
AB274971\_HBc\_P-E; AB274974\_HBc\_P-E; AF350099\_HBc\_P-E; AF350100\_HBc\_P-E;  
AF350102\_HBc\_P-E; AF350103\_HBc\_P-E; AF350104\_HBc\_P-E; AF350106\_HBc\_P-E;  
AF350108\_HBc\_P-E; AF350116\_HBc\_P-E; AF350118\_HBc\_P-E; AF350119\_HBc\_P-E;  
AF350120\_HBc\_P-E; AF350121\_HBc\_P-E; AF350122\_HBc\_P-E; AF350124\_HBc\_P-E;  
AF350125\_HBc\_P-E; AF350126\_HBc\_P-E; AF350127\_HBc\_P-E; AF350128\_HBc\_P-E;  
AF350130\_HBc\_P-E; AF350132\_HBc\_P-E; AF350133\_HBc\_P-E; AF350134\_HBc\_P-E;  
AF350138\_HBc\_P-E; AF350139\_HBc\_P-E; AF350140\_HBc\_P-E; AF350141\_HBc\_P-E;  
AF350143\_HBc\_P-E; AF350147\_HBc\_P-E; AF350148\_HBc\_P-E; AF350149\_HBc\_P-E;  
AF350150\_HBc\_P-E; AF350151\_HBc\_P-E; AF350152\_HBc\_P-E; AF350155\_HBc\_P-E;  
AF350156\_HBc\_P-E; AF350157\_HBc\_P-E; AF350162\_HBc\_P-E; AF350163\_HBc\_P-E;  
AF350165\_HBc\_P-E; AF350169\_HBc\_P-E; AF350170\_HBc\_P-E; AF350171\_HBc\_P-E;  
AF350172\_HBc\_P-E; AF350174\_HBc\_P-E; AF350178\_HBc\_P-E; AF350179\_HBc\_P-E;  
AF350181\_HBc\_P-E; AF350185\_HBc\_P-E; AF350186\_HBc\_P-E; AF350189\_HBc\_P-E;  
AF350190\_HBc\_P-E; AF350192\_HBc\_P-E; AF350193\_HBc\_P-E; AF350194\_HBc\_P-E;  
AF350195\_HBc\_P-E; AF350196\_HBc\_P-E; AF350197\_HBc\_P-E; AF350198\_HBc\_P-E;  
AF350199\_HBc\_P-E; AF350200\_HBc\_P-E; AF350201\_HBc\_P-E; AF350205\_HBc\_P-E;  
AF350210\_HBc\_P-E; AF350212\_HBc\_P-E; AF350213\_HBc\_P-E; AF350214\_HBc\_P-E;  
AF350216\_HBc\_P-E; AF350217\_HBc\_P-E; AF350218\_HBc\_P-E; AM494689\_HBc\_P-E;  
AM494690\_HBc\_P-E; AM494693\_HBc\_P-E; AM494694\_HBc\_P-E; AM494696\_HBc\_P-E;  
AM494697\_HBc\_P-E; AM494699\_HBc\_P-E; AM494700\_HBc\_P-E; AM494701\_HBc\_P-E;  
AM494702\_HBc\_P-E; AM494704\_HBc\_P-E; AM494705\_HBc\_P-E; AM494706\_HBc\_P-E;  
AM494707\_HBc\_P-E; AM494708\_HBc\_P-E; AM494709\_HBc\_P-E; AM494710\_HBc\_P-E;  
AM494712\_HBc\_P-E; AM494713\_HBc\_P-E; AM494715\_HBc\_P-E; AM494717\_HBc\_P-E;  
AM494788\_HBc\_P-E; AM494789\_HBc\_P-E; AM494790\_HBc\_P-E; AM494798\_HBc\_P-E;  
AM494799\_HBc\_P-E; AM494801\_HBc\_P-E; AM494802\_HBc\_P-E; AM494804\_HBc\_P-E;  
AM494808\_HBc\_P-E; AM494809\_HBc\_P-E; AM494810\_HBc\_P-E; AY738144\_HBc\_P-E;  
AY738145\_HBc\_C-E; AY738146\_HBc\_P-E; AY738147\_HBc\_P-E; AY739674\_HBc\_P-E;  
DQ060822\_HBc\_P-E; DQ060823\_HBc\_P-E; DQ060824\_HBc\_P-E; DQ060825\_HBc\_P-E;  
DQ060826\_HBc\_P-E; DQ060827\_HBc\_P-E; DQ060828\_HBc\_P-E; DQ060829\_HBc\_P-E;  
DQ060830\_HBc\_P-E; EU239218\_HBc\_P-E; EU239219\_HBc\_P-E; EU239221\_HBc\_P-E;  
EU239226\_HBc\_P-E; EU620071\_HBc\_P-E; FJ349237\_HBc\_P-E; FJ349238\_HBc\_P-E; FJ349239\_HBc\_P-  
E; FN545841\_HBc\_P-E; GQ161759\_HBc\_P-E; GQ161761\_HBc\_P-E; GQ161763\_HBc\_P-E;  
GQ161764\_HBc\_P-E; GQ161765\_HBc\_P-E; GQ161769\_HBc\_P-E; GQ161770\_HBc\_P-E;  
GQ161771\_HBc\_P-E; GQ161772\_HBc\_P-E; GQ161776\_HBc\_P-E; GQ161777\_HBc\_P-E;  
GQ161779\_HBc\_P-E; GQ161781\_HBc\_P-E; GQ161784\_HBc\_P-E; GQ161787\_HBc\_P-E;  
GQ161789\_HBc\_P-E; GQ161793\_HBc\_P-E; GQ161798\_HBc\_P-E; GQ161800\_HBc\_P-E;  
GQ161804\_HBc\_P-E; GQ161816\_HBc\_P-E; GQ161817\_HBc\_P-E; GQ161819\_HBc\_P-E;



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GQ161827\_HBc\_P-E; GQ161828\_HBc\_P-E; GQ161829\_HBc\_P-E; GQ161832\_HBc\_P-E;  
HM363568\_HBc\_P-E; HM363571\_HBc\_P-E; HM363572\_HBc\_P-E; HM363573\_HBc\_P-E;  
HM363574\_HBc\_P-E; HM363577\_HBc\_P-E; HM363579\_HBc\_P-E; HM363580\_HBc\_P-E;  
HM363581\_HBc\_P-E; HM363582\_HBc\_P-E; HM363585\_HBc\_P-E; HM363586\_HBc\_P-E;  
HM363588\_HBc\_P-E; HM363589\_HBc\_P-E; HM363590\_HBc\_P-E; HM363591\_HBc\_P-E;  
HM363592\_HBc\_P-E; JQ000008\_HBc\_P-E; KF170742\_HBc\_P-E; KF798259\_HBc\_P-E;  
KF798270\_HBc\_P-E; KF798298\_HBc\_P-E; KF849715\_HBc\_P-E; KF849717\_HBc\_P-E; KF849721\_HBc\_P-  
E; KF849722\_HBc\_P-E; KF849723\_HBc\_P-E; KF849727\_HBc\_P-E; X75657\_HBc\_P-E; AB036905\_HBc\_P-  
F; AB036906\_HBc\_P-F; AB036907\_HBc\_P-F; AB036909\_HBc\_P-F; AB036910\_HBc\_P-F;  
AB036911\_HBc\_P-F; AB036912\_HBc\_P-F; AB036913\_HBc\_P-F; AB036914\_HBc\_P-F;  
AB036915\_HBc\_P-F; AB036916\_HBc\_P-F; AB036917\_HBc\_P-F; AB036919\_HBc\_P-F;  
AB036920\_HBc\_P-F; AB064316\_HBc\_P-F; AB116549\_HBc\_P-F; AB116551\_HBc\_P-F;  
AB116552\_HBc\_P-F; AF223962\_HBc\_P-F; AF223963\_HBc\_P-F; AF223964\_HBc\_P-F;  
AF223965\_HBc\_P-F; AY090458\_HBc\_C-F; AY090461\_HBc\_P-F; AY179735\_HBc\_P-F;  
AY311369\_HBc\_P-F; DQ776247\_HBc\_P-F; DQ823086\_HBc\_P-F; DQ823088\_HBc\_P-F;  
DQ823089\_HBc\_P-F; DQ823090\_HBc\_P-F; DQ823091\_HBc\_P-F; DQ823092\_HBc\_P-F;  
DQ823093\_HBc\_P-F; DQ823094\_HBc\_P-F; DQ823095\_HBc\_P-F; DQ899142\_HBc\_P-F;  
DQ899143\_HBc\_P-F; DQ899144\_HBc\_P-F; DQ899145\_HBc\_P-F; DQ899147\_HBc\_P-F;  
DQ899148\_HBc\_P-F; EF576812\_HBc\_P-F; EU366116\_HBc\_P-F; EU366118\_HBc\_P-F;  
EU670261\_HBc\_P-F; FJ657522\_HBc\_P-F; FJ657528\_HBc\_P-F; FJ657529\_HBc\_P-F; FJ709457\_HBc\_P-F;  
FJ709458\_HBc\_P-F; FJ709459\_HBc\_P-F; FJ709460\_HBc\_P-F; FJ709462\_HBc\_P-F; FJ709463\_HBc\_P-F;  
FJ709464\_HBc\_P-F; FJ709465\_HBc\_P-F; FJ709494\_HBc\_P-F; HE981181\_HBc\_P-F; HE981182\_HBc\_P-  
F; HE981186\_HBc\_P-F; HM585186\_HBc\_P-F; HM585187\_HBc\_P-F; HM585188\_HBc\_P-F;  
HM585189\_HBc\_P-F; HM585190\_HBc\_P-F; HM585191\_HBc\_P-F; HM585192\_HBc\_P-F;  
HM585193\_HBc\_P-F; HM585195\_HBc\_P-F; HM585196\_HBc\_P-F; HM585197\_HBc\_P-F;  
HM585198\_HBc\_P-F; HM585199\_HBc\_P-F; HM585200\_HBc\_P-F; HM590471\_HBc\_P-F;  
HM590472\_HBc\_P-F; HM590473\_HBc\_P-F; HM590474\_HBc\_P-F; HQ378247\_HBc\_P-F;  
HQ420165\_HBc\_P-F; HQ420166\_HBc\_P-F; JF439884\_HBc\_P-F; JF439885\_HBc\_P-F; JN688691\_HBc\_P-  
F; JN688703\_HBc\_P-F; JN792922\_HBc\_P-F; JN811655\_HBc\_P-F; JN811656\_HBc\_P-F;  
KC494395\_HBc\_P-F; KC494397\_HBc\_P-F; KC494398\_HBc\_P-F; KC494402\_HBc\_P-F;  
KC494403\_HBc\_P-F; KC494405\_HBc\_P-F; KF199901\_HBc\_P-F; KJ843164\_HBc\_P-F; KJ843170\_HBc\_P-  
F; KJ843171\_HBc\_P-F; KJ843174\_HBc\_P-F; KJ843175\_HBc\_P-F; KJ843176\_HBc\_P-F; KJ843177\_HBc\_P-  
F; KJ843178\_HBc\_P-F; KJ843179\_HBc\_P-F; KJ843180\_HBc\_P-F; KJ843181\_HBc\_P-F; KJ843185\_HBc\_P-  
F; KJ843189\_HBc\_P-F; KJ843190\_HBc\_P-F; KJ843193\_HBc\_P-F; KJ843194\_HBc\_P-F; KJ843196\_HBc\_P-  
F; KJ843197\_HBc\_P-F; KJ843198\_HBc\_P-F; KJ843200\_HBc\_P-F; KJ843201\_HBc\_P-F; KJ843203\_HBc\_P-  
F; KJ843204\_HBc\_P-F; KJ843205\_HBc\_P-F; KJ843206\_HBc\_P-F; KJ843207\_HBc\_P-F; KJ843208\_HBc\_P-  
F; KJ843209\_HBc\_P-F; KJ843211\_HBc\_P-F; KJ843212\_HBc\_P-F; KJ843213\_HBc\_P-F; KJ843219\_HBc\_P-  
F; KJ843220\_HBc\_P-F; KJ843221\_HBc\_P-F; KJ843222\_HBc\_P-F; KJ843223\_HBc\_P-F; KJ843224\_HBc\_P-  
F; KJ843226\_HBc\_P-F; KM233681\_HBc\_P-F; X69798\_HBc\_P-F; X75658\_HBc\_C-F; X75663\_HBc\_P-F;  
AB056514\_HBc\_P-G; AB064310\_HBc\_P-G; AB064311\_HBc\_P-G; AB064313\_HBc\_C-G;  
AB375165\_HBc\_P-G; AB375166\_HBc\_P-G; AB375167\_HBc\_P-G; AB375168\_HBc\_P-G;  
AB375169\_HBc\_P-G; AB375170\_HBc\_P-G; AF160501\_HBc\_C-G; AF405706\_HBc\_P-G;



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DQ207798\_HBc\_P-G; EF464097\_HBc\_P-G; EF464098\_HBc\_P-G; EF634480\_HBc\_P-G;  
HE981174\_HBc\_P-G; HE981175\_HBc\_P-G; HE981176\_HBc\_P-G; JF439779\_HBc\_P-G;  
JF439780\_HBc\_P-G; JF439781\_HBc\_P-G; JF439782\_HBc\_P-G; JF439784\_HBc\_P-G; JF439785\_HBc\_P-  
G; JF439786\_HBc\_P-G; JF439787\_HBc\_P-G; JF439788\_HBc\_P-G; JF439789\_HBc\_P-G;  
JF439791\_HBc\_P-G; JF439794\_HBc\_P-G; JF439795\_HBc\_P-G; JF439800\_HBc\_P-G; JF439802\_HBc\_P-  
G; JF439803\_HBc\_P-G; JF439804\_HBc\_P-G; JF439805\_HBc\_P-G; JF439806\_HBc\_P-G;  
JF439807\_HBc\_P-G; JF439808\_HBc\_P-G; JF439809\_HBc\_P-G; JF439810\_HBc\_P-G; JF439811\_HBc\_P-  
G; JF439812\_HBc\_P-G; JF439813\_HBc\_P-G; JF439814\_HBc\_P-G; JF439815\_HBc\_P-G;  
JF439816\_HBc\_P-G; JF439817\_HBc\_P-G; JF439818\_HBc\_P-G; JQ707660\_HBc\_P-G; JQ707666\_HBc\_P-  
G; JQ707668\_HBc\_P-G; JQ707671\_HBc\_P-G; JQ707677\_HBc\_P-G; JQ707678\_HBc\_P-G;  
JQ707679\_HBc\_P-G; JQ707680\_HBc\_P-G; JX899375\_HBc\_P-G; KF414679\_HBc\_P-G;  
KF767452\_HBc\_P-G; KF779233\_HBc\_P-G; KF779357\_HBc\_P-G; KJ194508\_HBc\_P-G; M74502\_HBc\_P-  
G; AB179747\_HBc\_P-H; AB266536\_HBc\_P-H; AB275308\_HBc\_P-H; AB353764\_HBc\_P-H;  
AB375159\_HBc\_P-H; AB375160\_HBc\_P-H; AB375161\_HBc\_P-H; AB375163\_HBc\_P-H;  
AB375164\_HBc\_P-H; AB818694\_HBc\_P-H; AY090454\_HBc\_C-H; AY090460\_HBc\_P-H;  
EF157291\_HBc\_P-H; EU498228\_HBc\_P-H; HM117850\_HBc\_P-H; HM117851\_HBc\_P-H;  
JX896124\_HBc\_P-H; JX896125\_HBc\_P-H; JX896134\_HBc\_P-H; JX915624\_HBc\_P-H; KC836867\_HBc\_P-  
H; AB031265\_HBc\_P-RF-CB; AB033557\_HBc\_P-RF-CB; AB195939\_HBc\_P-RF-CB; AB195940\_HBc\_P-  
RF-CB; AB195941\_HBc\_P-RF-CB; AB195950\_HBc\_P-RF-CB; AB195951\_HBc\_P-RF-CB;  
AB195955\_HBc\_P-RF-CB; AB195956\_HBc\_P-RF-CB; AB195957\_HBc\_P-RF-CB; AB241109\_HBc\_P-RF-  
CB; AB330368\_HBc\_P-RF-DA; AB583679\_HBc\_P-RF-DE; AB674433\_HBc\_P-RF-DE; AB674504\_HBc\_P-  
RF-DC; AF297619\_HBc\_P-RF-DA; AF330110\_HBc\_P-RF-CB; AJ344117\_HBc\_P-RF-DE;  
AM494716\_HBc\_P-RF-DE; AP011104\_HBc\_P-RF-CB; AP011105\_HBc\_P-RF-CB; AP011108\_HBc\_P-RF-  
CB; AY040627\_HBc\_P-RF-CB; AY123041\_HBc\_P-RF-CB; AY161145\_HBc\_P-RF-AD; AY161146\_HBc\_P-  
RF-AD; AY167095\_HBc\_P-RF-CB; AY233277\_HBc\_P-RF-AC; AY236161\_HBc\_P-RF-DA;  
AY247030\_HBc\_P-RF-CB; AY373430\_HBc\_P-RF-DE; AY800249\_HBc\_P-RF-DC; AY817510\_HBc\_P-RF-  
DC; AY817511\_HBc\_P-RF-DC; AY817515\_HBc\_P-RF-DC; DQ111987\_HBc\_P-RF-DE; DQ144601\_HBc\_P-  
RF-BC; DQ478887\_HBc\_P-RF-DC; DQ478889\_HBc\_P-RF-DC; DQ478890\_HBc\_P-RF-DC;  
DQ478892\_HBc\_P-RF-DC; DQ478897\_HBc\_P-RF-DC; EF464099\_HBc\_P-RF-AG; EU594435\_HBc\_P-RF-  
DE; EU594436\_HBc\_P-RF-DE; EU787434\_HBc\_P-RF-DC; EU835240\_HBc\_P-RF-GC; EU919166\_HBc\_P-  
RF-CB; FJ032337\_HBc\_P-RF-CB; FJ386578\_HBc\_P-RF-CB; FJ386585\_HBc\_P-RF-CB; FJ386649\_HBc\_P-  
RF-CB; FJ562247\_HBc\_P-RF-CB; FJ562294\_HBc\_P-RF-CB; FJ562314\_HBc\_P-RF-CB; FJ715384\_HBc\_P-  
RF-CB; FJ715385\_HBc\_P-RF-CB; FJ715411\_HBc\_P-RF-CB; FJ715412\_HBc\_P-RF-CB; FJ715413\_HBc\_P-  
RF-CB; FJ715414\_HBc\_P-RF-CB; FJ787446\_HBc\_P-RF-CB; FJ787480\_HBc\_P-RF-CB; GQ161753\_HBc\_P-  
RF-AE; GQ161754\_HBc\_P-RF-DE; GQ183486\_HBc\_P-RF-DE; GQ377516\_HBc\_P-RF-CB;  
GQ377520\_HBc\_P-RF-CB; GQ377522\_HBc\_P-RF-CB; GQ377534\_HBc\_P-RF-CB; GQ377539\_HBc\_P-RF-  
CB; GQ377544\_HBc\_P-RF-CB; GQ377548\_HBc\_P-RF-CB; GQ377549\_HBc\_P-RF-CB; GQ377560\_HBc\_P-  
RF-CB; GQ377564\_HBc\_P-RF-CB; GQ377565\_HBc\_P-RF-CB; GQ377573\_HBc\_P-RF-CB;  
GQ377581\_HBc\_P-RF-CB; GQ377595\_HBc\_P-RF-BC; GQ377596\_HBc\_P-RF-CB; GQ377614\_HBc\_P-RF-  
CB; GQ377626\_HBc\_P-RF-CB; GQ377627\_HBc\_P-RF-CD; GQ377630\_HBc\_P-RF-BC;  
GQ377634\_HBc\_P-RF-CB; GQ377635\_HBc\_P-RF-BC; GQ924618\_HBc\_P-RF-CB; GU177079\_HBc\_P-RF-  
DE; HE981179\_HBc\_P-RF-FG; HM750133\_HBc\_P-RF-CB; HM750143\_HBc\_P-RF-DC;



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PepMix™ HBV (Capsid Protein) Ultra

HM750144\_HBc\_P-RF-DC; HM750145\_HBc\_P-RF-DC; HM750146\_HBc\_P-RF-DC; HM750149\_HBc\_P-RF-DC; HM750150\_HBc\_P-RF-DC; HQ700505\_HBc\_P-RF-CB; HQ700507\_HBc\_P-RF-CB; HQ700508\_HBc\_P-RF-CB; HQ700521\_HBc\_P-RF-CB; JF439776\_HBc\_P-RF-AG; JF440019\_HBc\_P-RF-AG; JF491448\_HBc\_P-RF-DC; JF491449\_HBc\_P-RF-DC; JF491451\_HBc\_P-RF-DC; JF491455\_HBc\_P-RF-DC; JF491456\_HBc\_P-RF-DC; JN104442\_HBc\_P-RF-CB; JN257216\_HBc\_P-RF-DE; JN400086\_HBc\_P-RF-CB; JQ040146\_HBc\_P-RF-CB; JQ040174\_HBc\_P-RF-CB; JQ040175\_HBc\_P-RF-CB; JQ687532\_HBc\_P-RF-DE; JQ707421\_HBc\_P-RF-GA; JQ707430\_HBc\_P-RF-GA; JQ707432\_HBc\_P-RF-GA; JQ707441\_HBc\_P-RF-GA; JQ707445\_HBc\_P-RF-GA; JQ707450\_HBc\_P-RF-GA; JQ707456\_HBc\_P-RF-GA; JQ707471\_HBc\_P-RF-GA; JQ707472\_HBc\_P-RF-GA; JQ707475\_HBc\_P-RF-GA; JQ732168\_HBc\_P-RF-CB; JQ801476\_HBc\_P-RF-CG; JX429898\_HBc\_P-RF-DC; JX898686\_HBc\_P-RF-DE; JX898687\_HBc\_P-RF-DE; JX898688\_HBc\_P-RF-DE; JX898690\_HBc\_P-RF-DE; JX898693\_HBc\_P-RF-DE; JX898695\_HBc\_P-RF-DE; JX898696\_HBc\_P-RF-DE; JX898698\_HBc\_P-RF-DE; JX898699\_HBc\_P-RF-DE; KC315400\_HBc\_P-RF-CB; KC774183\_HBc\_P-RF-CB; KC774186\_HBc\_P-RF-CB; KC774193\_HBc\_P-RF-CB; KC774198\_HBc\_P-RF-CB; KC774201\_HBc\_P-RF-CB; KC774212\_HBc\_P-RF-CB; KC774230\_HBc\_P-RF-CB; KC774234\_HBc\_P-RF-CB; KC774246\_HBc\_P-RF-CB; KC774258\_HBc\_P-RF-CB; KC774294\_HBc\_P-RF-CB; KC774317\_HBc\_P-RF-CB; KC774322\_HBc\_P-RF-CB; KC774324\_HBc\_P-RF-CB; KC774328\_HBc\_P-RF-CB; KC774332\_HBc\_P-RF-CB; KC774341\_HBc\_P-RF-CB; KC774344\_HBc\_P-RF-CB; KC774422\_HBc\_P-RF-DC; KC774423\_HBc\_P-RF-DC; KC774424\_HBc\_P-RF-DC; KC774426\_HBc\_P-RF-DC; KC774433\_HBc\_P-RF-DC; KC774434\_HBc\_P-RF-DC; KC774435\_HBc\_P-RF-DC; KC774439\_HBc\_P-RF-DC; KC774448\_HBc\_P-RF-DC; KC774452\_HBc\_P-RF-DC; KC774455\_HBc\_P-RF-DC; KC774456\_HBc\_P-RF-DC; KC774457\_HBc\_P-RF-DC; KC774458\_HBc\_P-RF-DC; KC774466\_HBc\_P-RF-DC; KC774468\_HBc\_P-RF-DC; KC774470\_HBc\_P-RF-DC; KC774471\_HBc\_P-RF-DC; KC774472\_HBc\_P-RF-DC; KC774474\_HBc\_P-RF-DC; KC774475\_HBc\_P-RF-DC; KC774476\_HBc\_P-RF-DC; KC774478\_HBc\_P-RF-DC; KC774480\_HBc\_P-RF-DC; KC774482\_HBc\_P-RF-DC; KC774483\_HBc\_P-RF-DC; KC774487\_HBc\_P-RF-DC; KC774489\_HBc\_P-RF-DC; KC774490\_HBc\_P-RF-DC; KC774492\_HBc\_P-RF-DC; KC774495\_HBc\_P-RF-DC; KC774497\_HBc\_P-RF-DC; KC774499\_HBc\_P-RF-DC; KF779353\_HBc\_P-RF-DA; KF873524\_HBc\_P-RF-CB; KF873527\_HBc\_P-RF-CB; KF873532\_HBc\_P-RF-CB; KF873534\_HBc\_P-RF-CB; KF873538\_HBc\_P-RF-CB; KF873543\_HBc\_P-RF-CB; KJ173279\_HBc\_P-RF-CB; KJ173299\_HBc\_P-RF-CB; KJ173300\_HBc\_P-RF-CB; KJ173325\_HBc\_P-RF-CB; KJ173326\_HBc\_P-RF-CB; KJ173329\_HBc\_P-RF-CB; KJ173330\_HBc\_P-RF-CB; KJ173349\_HBc\_P-RF-CB; KJ173350\_HBc\_P-RF-CB; KJ410520\_HBc\_P-RF-CB; LK995391\_HBc\_P-RF-ED; X80925\_HBc\_P-RF-DE

**95 Protein sequences are covered at 99 %:**

AB116085\_HBc\_P-A; AB205118\_HBc\_P-A; AB480036\_HBc\_P-A; AB480040\_HBc\_P-A; AF324121\_HBc\_P-A; AY603441\_HBc\_P-A; AY934772\_HBc\_P-A; EF208113\_HBc\_P-A; EU859939\_HBc\_P-A; JF439853\_HBc\_P-A; JQ707615\_HBc\_P-A; JQ707633\_HBc\_P-A; JQ707635\_HBc\_P-A; JQ707636\_HBc\_P-A; JQ707638\_HBc\_P-A; JQ707639\_HBc\_P-A; JQ707640\_HBc\_P-A; JQ707641\_HBc\_P-A; JQ707642\_HBc\_P-A; JQ707643\_HBc\_P-A; JQ707644\_HBc\_P-A; JQ707645\_HBc\_P-A; JQ707646\_HBc\_P-A; JQ707647\_HBc\_P-A; JQ707648\_HBc\_P-A; JQ707649\_HBc\_P-A; JQ707650\_HBc\_P-A; JQ707651\_HBc\_P-A;





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JQ707652\_HBc\_P-A; JQ707653\_HBc\_P-A; JQ707654\_HBc\_P-A; JQ707656\_HBc\_P-A;  
KF779315\_HBc\_P-A; KF779316\_HBc\_P-A; KF779317\_HBc\_P-A; KF779322\_HBc\_P-A;  
KF779332\_HBc\_P-A; X70185\_HBc\_P-A; AF100308\_HBc\_P-B; AF335754\_HBc\_P-B; FJ562219\_HBc\_P-B;  
FJ562322\_HBc\_P-B; GQ358137\_HBc\_P-B; GQ377587\_HBc\_P-B; GU815639\_HBc\_P-B;  
GU815752\_HBc\_P-B; GU815780\_HBc\_P-B; JX429897\_HBc\_P-B; KC774376\_HBc\_P-B;  
KJ173377\_HBc\_P-B; KJ173380\_HBc\_P-B; AY269099\_HBc\_P-C; DQ536414\_HBc\_P-C;  
EF137802\_HBc\_P-C; GQ377555\_HBc\_P-C; GQ475336\_HBc\_P-C; KC774182\_HBc\_P-C;  
KJ173285\_HBc\_P-C; KJ598639\_HBc\_P-C; AB126581\_HBc\_P-D; AB205128\_HBc\_P-D;  
AF324109\_HBc\_P-D; AF324113\_HBc\_P-D; EF103276\_HBc\_P-D; EU414054\_HBc\_P-D;  
EU414135\_HBc\_P-D; FJ040872\_HBc\_P-D; HM750155\_HBc\_P-D; HQ236014\_HBc\_P-D;  
JF754596\_HBc\_P-D; JF754615\_HBc\_P-D; JN040750\_HBc\_P-D; JN040751\_HBc\_P-D; JN040788\_HBc\_P-D;  
JN040790\_HBc\_P-D; JN040794\_HBc\_P-D; JN257200\_HBc\_P-D; JN257203\_HBc\_P-D;  
JX310734\_HBc\_P-D; KC875278\_HBc\_P-D; KF018189\_HBc\_P-D; KF018194\_HBc\_P-D;  
KF471650\_HBc\_P-D; KF779229\_HBc\_P-D; AB205190\_HBc\_P-E; AF350131\_HBc\_P-E;  
AM494803\_HBc\_P-E; EU239224\_HBc\_P-E; FJ349226\_HBc\_P-E; KJ843210\_HBc\_P-F;  
HQ684848\_HBc\_P-RF-CB; KC774447\_HBc\_P-RF-DC; KF873511\_HBc\_P-RF-CB; KF873515\_HBc\_P-RF-CB;  
KF873517\_HBc\_P-RF-BC

**195 Protein sequences are covered at 98 %:**

AB064314\_HBc\_P-A; AB453988\_HBc\_P-A; AF297625\_HBc\_P-A; AF536524\_HBc\_P-A;  
AY233279\_HBc\_P-A; AY233283\_HBc\_P-A; AY603431\_HBc\_P-A; AY603432\_HBc\_P-A;  
DQ315784\_HBc\_P-A; EU594384\_HBc\_P-A; FJ692588\_HBc\_P-A; HE576988\_HBc\_P-A;  
JF439944\_HBc\_P-A; JF439972\_HBc\_P-A; JF439975\_HBc\_P-A; JF439976\_HBc\_P-A; JF439983\_HBc\_P-A;  
JN182325\_HBc\_P-A; JN182326\_HBc\_P-A; JQ707315\_HBc\_P-A; JQ707382\_HBc\_P-A;  
JQ707387\_HBc\_P-A; JQ707565\_HBc\_P-A; JQ707623\_HBc\_P-A; JQ707634\_HBc\_P-A;  
KC875253\_HBc\_P-A; KC875256\_HBc\_P-A; KC875257\_HBc\_P-A; KF779293\_HBc\_P-A;  
KF779294\_HBc\_P-A; KF779298\_HBc\_P-A; KJ854687\_HBc\_P-A; LK995385\_HBc\_P-A; Z35717\_HBc\_P-A;  
AB334299\_HBc\_P-B; AB334300\_HBc\_P-B; AB334301\_HBc\_P-B; AB334302\_HBc\_P-B;  
AB334303\_HBc\_P-B; AB355454\_HBc\_P-B; AB493833\_HBc\_P-B; AF121247\_HBc\_P-B;  
AF324106\_HBc\_P-B; AY269078\_HBc\_P-B; AY596104\_HBc\_P-B; DQ995801\_HBc\_P-B;  
EF134946\_HBc\_P-B; EU306709\_HBc\_P-B; EU796071\_HBc\_P-B; FJ023636\_HBc\_P-B; FJ386684\_HBc\_P-B;  
GQ358144\_HBc\_P-B; GU815609\_HBc\_P-B; GU815640\_HBc\_P-B; GU815659\_HBc\_P-B;  
GU815677\_HBc\_P-B; GU815678\_HBc\_P-B; GU815696\_HBc\_P-B; GU815700\_HBc\_P-B;  
GU815722\_HBc\_P-B; GU815754\_HBc\_P-B; JQ801524\_HBc\_P-B; JX507210\_HBc\_P-B;  
KC774406\_HBc\_P-B; KC774413\_HBc\_P-B; AB014395\_HBc\_P-C; AB026813\_HBc\_P-C;  
AB074756\_HBc\_P-C; AB176643\_HBc\_P-C; AB471849\_HBc\_P-C; AF241410\_HBc\_P-C;  
AF363961\_HBc\_P-C; AF384367\_HBc\_P-C; AY167096\_HBc\_P-C; AY206389\_HBc\_P-C;  
AY862869\_HBc\_P-C; DQ089782\_HBc\_P-C; DQ089784\_HBc\_P-C; DQ377164\_HBc\_P-C;  
DQ536410\_HBc\_P-C; EU306687\_HBc\_P-C; EU554539\_HBc\_P-C; EU939578\_HBc\_P-C;  
FJ032351\_HBc\_P-C; FJ386652\_HBc\_P-C; FJ562276\_HBc\_P-C; FJ715350\_HBc\_P-C; FJ715357\_HBc\_P-C;



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FJ715367\_HBc\_P-C; FJ715375\_HBc\_P-C; FJ715406\_HBc\_P-C; FJ715415\_HBc\_P-C; FJ715416\_HBc\_P-C;  
FJ787439\_HBc\_P-C; GQ358157\_HBc\_P-C; GQ475325\_HBc\_P-C; GQ855528\_HBc\_P-C;  
HQ700516\_HBc\_P-C; HQ700522\_HBc\_P-C; JN104435\_HBc\_P-C; JN827416\_HBc\_P-C;  
JQ801487\_HBc\_P-C; JQ801502\_HBc\_P-C; JX560519\_HBc\_P-C; KC875269\_HBc\_P-C; X75665\_HBc\_P-C;  
AB355452\_HBc\_P-D; AF419526\_HBc\_P-D; AF419540\_HBc\_P-D; AF419542\_HBc\_P-D;  
AY161157\_HBc\_P-D; AY230114\_HBc\_P-D; AY371919\_HBc\_P-D; AY603445\_HBc\_P-D;  
EU726917\_HBc\_P-D; EU726937\_HBc\_P-D; EU726946\_HBc\_P-D; GU456648\_HBc\_P-D;  
JN040793\_HBc\_P-D; JN257169\_HBc\_P-D; JN664919\_HBc\_P-D; JQ707501\_HBc\_P-D;  
KC875313\_HBc\_P-D; KC875324\_HBc\_P-D; KF779301\_HBc\_P-D; X65257\_HBc\_P-D; X85259\_HBc\_P-D;  
AB274972\_HBc\_P-E; AF350107\_HBc\_P-E; AF350109\_HBc\_P-E; AF350146\_HBc\_P-E;  
AF350160\_HBc\_P-E; AF350161\_HBc\_P-E; AF350164\_HBc\_P-E; AF350166\_HBc\_P-E;  
AF350183\_HBc\_P-E; GQ161794\_HBc\_P-E; GQ161835\_HBc\_P-E; HM363567\_HBc\_P-E;  
AY254498\_HBc\_P-F; EU366133\_HBc\_P-F; KC494394\_HBc\_P-F; KC494400\_HBc\_P-F;  
AB056513\_HBc\_P-G; AB056515\_HBc\_P-G; AB064312\_HBc\_P-G; GU563556\_HBc\_P-G;  
JF439799\_HBc\_P-G; JQ707436\_HBc\_P-G; KF767450\_HBc\_P-G; AY090457\_HBc\_P-H;  
AB105172\_HBc\_P-RF-CB; AB493837\_HBc\_P-RF-CB; AB493840\_HBc\_P-RF-CB; AB493847\_HBc\_P-RF-  
CB; AP011102\_HBc\_P-RF-CB; AP011103\_HBc\_P-RF-CB; AY233295\_HBc\_P-RF-DE; AY817513\_HBc\_P-  
RF-DC; AY862864\_HBc\_P-RF-DC; EU939606\_HBc\_P-RF-CB; FJ715387\_HBc\_P-RF-CB;  
GQ358155\_HBc\_P-RF-CB; GQ358156\_HBc\_P-RF-CB; GQ377594\_HBc\_P-RF-CB; HE981180\_HBc\_P-RF-  
GF; HQ700498\_HBc\_P-RF-CB; HQ700499\_HBc\_P-RF-CB; HQ700518\_HBc\_P-RF-CB; HQ700519\_HBc\_P-  
RF-CB; HQ700527\_HBc\_P-RF-CB; HQ700528\_HBc\_P-RF-CB; HQ700530\_HBc\_P-RF-CB;  
HQ700531\_HBc\_P-RF-CB; HQ700532\_HBc\_P-RF-CB; HQ700542\_HBc\_P-RF-CB; JN257189\_HBc\_P-RF-  
DE; JQ272887\_HBc\_P-RF-GF; JQ707448\_HBc\_P-RF-GA; JQ707457\_HBc\_P-RF-GA; JQ707458\_HBc\_P-  
RF-GA; JQ707460\_HBc\_P-RF-GA; JQ707461\_HBc\_P-RF-GA; JQ707462\_HBc\_P-RF-GA;  
JQ707464\_HBc\_P-RF-GA; JQ707465\_HBc\_P-RF-GA; JQ707466\_HBc\_P-RF-GA; JQ707467\_HBc\_P-RF-  
GA; JQ707469\_HBc\_P-RF-GA; JQ707470\_HBc\_P-RF-GA; JQ707474\_HBc\_P-RF-GA; JX429896\_HBc\_P-  
RF-CB; KC774263\_HBc\_P-RF-CB; KF170740\_HBc\_P-RF-DE; KM999993\_HBc\_P-RF-CB

**267 Protein sequences are covered at 97 %:**

AB116083\_HBc\_P-A; AF350087\_HBc\_P-A; AY233281\_HBc\_P-A; AY862868\_HBc\_P-A;  
EU414048\_HBc\_P-A; GU563545\_HBc\_P-A; HM535200\_HBc\_P-A; JF439774\_HBc\_P-A;  
JF439835\_HBc\_P-A; JF439837\_HBc\_P-A; JF439848\_HBc\_P-A; JF439859\_HBc\_P-A; JF439953\_HBc\_P-  
A; JN182329\_HBc\_P-A; JQ707335\_HBc\_P-A; JQ707336\_HBc\_P-A; JQ707555\_HBc\_P-A;  
JQ707594\_HBc\_P-A; JQ707607\_HBc\_P-A; KC875260\_HBc\_P-A; KF779283\_HBc\_P-A;  
KF779342\_HBc\_P-A; KF779371\_HBc\_P-A; KJ854690\_HBc\_P-A; M57663\_HBc\_P-A; AB010289\_HBc\_P-  
B; AB073840\_HBc\_P-B; AB073846\_HBc\_P-B; AB073848\_HBc\_P-B; AB205121\_HBc\_P-B;  
AB219429\_HBc\_P-B; AB246341\_HBc\_P-B; AB246342\_HBc\_P-B; AB287314\_HBc\_P-B;  
AB287315\_HBc\_P-B; AB908304\_HBc\_P-B; AF121248\_HBc\_P-B; AF121251\_HBc\_P-B;  
AF233235\_HBc\_P-B; AF324069\_HBc\_P-B; AF335746\_HBc\_P-B; AP011088\_HBc\_P-B;  
AY167097\_HBc\_P-B; AY269095\_HBc\_P-B; DQ144561\_HBc\_P-B; DQ144598\_HBc\_P-B;



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**PepMix™ HBV (Capsid Protein) Ultra**

DQ448626\_HBc\_P-B; DQ448628\_HBc\_P-B; DQ993711\_HBc\_P-B; EU306696\_HBc\_P-B;  
EU570069\_HBc\_P-B; EU570070\_HBc\_P-B; FJ032352\_HBc\_P-B; FJ032353\_HBc\_P-B; FJ386654\_HBc\_P-  
B; FJ386676\_HBc\_P-B; GQ358143\_HBc\_P-B; GU815605\_HBc\_P-B; GU815612\_HBc\_P-B;  
GU815619\_HBc\_P-B; GU815657\_HBc\_P-B; GU815668\_HBc\_P-B; GU815751\_HBc\_P-B;  
GU815778\_HBc\_P-B; JX429899\_HBc\_P-B; JX429908\_HBc\_P-B; JX869998\_HBc\_P-B;  
KC492739\_HBc\_P-B; KC836872\_HBc\_P-B; KJ803817\_HBc\_P-B; AB014396\_HBc\_P-C;  
AB111124\_HBc\_P-C; AB195949\_HBc\_P-C; AB195953\_HBc\_P-C; AB195954\_HBc\_P-C;  
AB246344\_HBc\_P-C; AB250109\_HBc\_P-C; AB298720\_HBc\_P-C; AB298721\_HBc\_P-C;  
AB670265\_HBc\_P-C; AB670309\_HBc\_P-C; AF461357\_HBc\_P-C; AF461363\_HBc\_P-C;  
AY641558\_HBc\_P-C; DQ089760\_HBc\_P-C; DQ089764\_HBc\_P-C; DQ089802\_HBc\_P-C;  
DQ377160\_HBc\_P-C; EU306722\_HBc\_P-C; EU560440\_HBc\_P-C; EU579442\_HBc\_P-C;  
EU670263\_HBc\_P-C; EU916213\_HBc\_P-C; EU916214\_HBc\_P-C; EU939582\_HBc\_P-C;  
EU939597\_HBc\_P-C; EU939609\_HBc\_P-C; EU939611\_HBc\_P-C; EU939640\_HBc\_P-C;  
FJ032356\_HBc\_P-C; FJ386595\_HBc\_P-C; FJ386612\_HBc\_P-C; FJ386628\_HBc\_P-C; FJ386630\_HBc\_P-C;  
FJ562288\_HBc\_P-C; FJ715366\_HBc\_P-C; FJ715389\_HBc\_P-C; FJ751764\_HBc\_P-C; FJ787449\_HBc\_P-C;  
GQ377605\_HBc\_P-C; GQ475321\_HBc\_P-C; GQ924623\_HBc\_P-C; GU721029\_HBc\_P-C;  
HM011493\_HBc\_P-C; HM042269\_HBc\_P-C; JN400087\_HBc\_P-C; JN400088\_HBc\_P-C;  
JN400089\_HBc\_P-C; JQ027320\_HBc\_P-C; JQ801473\_HBc\_P-C; JQ801510\_HBc\_P-C; JX036335\_HBc\_P-  
C; JX036336\_HBc\_P-C; JX036337\_HBc\_P-C; JX504534\_HBc\_P-C; KC774179\_HBc\_P-C;  
KC774247\_HBc\_P-C; KC774252\_HBc\_P-C; KC774297\_HBc\_P-C; KC774314\_HBc\_P-C;  
KC774320\_HBc\_P-C; KC875261\_HBc\_P-C; KJ173311\_HBc\_P-C; KJ173317\_HBc\_P-C; KJ173393\_HBc\_P-  
C; KJ173394\_HBc\_P-C; KJ173429\_HBc\_P-C; KJ173430\_HBc\_P-C; KJ410496\_HBc\_P-C;  
KJ803761\_HBc\_P-C; KJ803765\_HBc\_P-C; KJ803766\_HBc\_P-C; KM359441\_HBc\_P-C;  
AB090269\_HBc\_P-D; AB109477\_HBc\_P-D; AB110075\_HBc\_P-D; AB355456\_HBc\_P-D;  
AF121242\_HBc\_P-D; AM422939\_HBc\_P-D; AY233292\_HBc\_P-D; AY233294\_HBc\_P-D;  
AY233296\_HBc\_P-D; AY371912\_HBc\_P-D; AY603427\_HBc\_P-D; AY603434\_HBc\_P-D;  
DQ178015\_HBc\_P-D; EF103281\_HBc\_P-D; EU155895\_HBc\_P-D; EU594411\_HBc\_P-D;  
EU594412\_HBc\_P-D; EU594422\_HBc\_P-D; EU726873\_HBc\_P-D; EU726905\_HBc\_P-D;  
EU726931\_HBc\_P-D; EU726977\_HBc\_P-D; EU787436\_HBc\_P-D; FJ349217\_HBc\_P-D;  
FJ349231\_HBc\_P-D; FJ562338\_HBc\_P-D; GQ183473\_HBc\_P-D; GQ183474\_HBc\_P-D;  
GQ183475\_HBc\_P-D; GQ205380\_HBc\_P-D; GQ205388\_HBc\_P-D; GU456653\_HBc\_P-D;  
GU456680\_HBc\_P-D; HM042266\_HBc\_P-D; JF754605\_HBc\_P-D; JN040758\_HBc\_P-D;  
JN040804\_HBc\_P-D; JN040813\_HBc\_P-D; JN664918\_HBc\_P-D; JN664928\_HBc\_P-D;  
JN664931\_HBc\_P-D; JX310735\_HBc\_P-D; KC875297\_HBc\_P-D; KC875316\_HBc\_P-D;  
KC875317\_HBc\_P-D; KC875337\_HBc\_P-D; KF018187\_HBc\_P-D; KF018190\_HBc\_P-D;  
KF679995\_HBc\_P-D; KF779220\_HBc\_P-D; KF798299\_HBc\_P-D; LK995394\_HBc\_P-D; X02496\_HBc\_P-  
D; X85308\_HBc\_P-D; AF350113\_HBc\_P-E; AF350135\_HBc\_P-E; AF350136\_HBc\_P-E;  
AF350142\_HBc\_P-E; AF350158\_HBc\_P-E; AF350177\_HBc\_P-E; AF350180\_HBc\_P-E;  
AF350182\_HBc\_P-E; AF350187\_HBc\_P-E; AF350203\_HBc\_P-E; AF350204\_HBc\_P-E;  
AF350209\_HBc\_P-E; AM494698\_HBc\_P-E; AM494794\_HBc\_P-E; AM494795\_HBc\_P-E;  
AM494812\_HBc\_P-E; EU726883\_HBc\_P-E; GQ161755\_HBc\_P-E; GQ161795\_HBc\_P-E;  
GQ161801\_HBc\_P-E; GQ161808\_HBc\_P-E; HM363583\_HBc\_P-E; HM363593\_HBc\_P-E;



Innovative Peptide Solutions

**PepMix™ HBV (Capsid Protein) Ultra**

JQ000009\_HBc\_P-E; KF170741\_HBc\_P-E; AB036908\_HBc\_P-F; AY090455\_HBc\_P-F;  
AY311370\_HBc\_P-F; DQ899146\_HBc\_P-F; JX079936\_HBc\_P-F; KJ843169\_HBc\_P-F; JF439792\_HBc\_P-  
G; JF439793\_HBc\_P-G; JF439796\_HBc\_P-G; JF439801\_HBc\_P-G; JQ707657\_HBc\_P-G;  
KF779235\_HBc\_P-G; AY123424\_HBc\_P-RF-CB; AY233293\_HBc\_P-RF-DE; AY862865\_HBc\_P-RF-DC;  
AY862866\_HBc\_P-RF-DC; EF103282\_HBc\_P-RF-AD; EF103283\_HBc\_P-RF-AD; EU589337\_HBc\_P-RF-  
CB; EU594406\_HBc\_P-RF-DE; EU881995\_HBc\_P-RF-CB; EU916232\_HBc\_P-RF-CB; FJ692536\_HBc\_P-  
RF-DE; GQ161806\_HBc\_P-RF-EA; GQ377607\_HBc\_P-RF-CB; GU563560\_HBc\_P-RF-DE;  
HF571060\_HBc\_P-RF-AE; HQ700526\_HBc\_P-RF-CB; JN257164\_HBc\_P-RF-DE; JN642160\_HBc\_P-RF-  
DE; JQ707424\_HBc\_P-RF-GA; JQ707459\_HBc\_P-RF-GA; JQ707463\_HBc\_P-RF-GA; JQ707473\_HBc\_P-  
RF-GA; KC774349\_HBc\_P-RF-CB; KC774425\_HBc\_P-RF-DC; KC774430\_HBc\_P-RF-DC;  
KC774431\_HBc\_P-RF-DC; KC774486\_HBc\_P-RF-DC; KC774488\_HBc\_P-RF-DC; KC774493\_HBc\_P-RF-  
DC; KJ173320\_HBc\_P-RF-CB; KJ173322\_HBc\_P-RF-CB; KJ410506\_HBc\_P-RF-CB; U95551\_HBc\_P-RF-DE

**362 Protein sequences are covered at 96 %:**

AB116081\_HBc\_P-A; AB116082\_HBc\_P-A; AB116093\_HBc\_P-A; AB453987\_HBc\_P-A;  
AB697511\_HBc\_P-A; AF297622\_HBc\_P-A; AF297623\_HBc\_P-A; AF324135\_HBc\_P-A;  
AF350081\_HBc\_P-A; AF350083\_HBc\_P-A; AJ309370\_HBc\_P-A; AM295796\_HBc\_P-A;  
AY233275\_HBc\_P-A; AY233285\_HBc\_P-A; AY603429\_HBc\_P-A; AY603438\_HBc\_P-A;  
AY603446\_HBc\_P-A; AY738139\_HBc\_P-A; AY738142\_HBc\_P-A; AY738143\_HBc\_P-A;  
EU594387\_HBc\_P-A; EU859898\_HBc\_P-A; EU859912\_HBc\_P-A; EU859934\_HBc\_P-A;  
EU859935\_HBc\_P-A; EU859936\_HBc\_P-A; FJ349222\_HBc\_P-A; FJ692554\_HBc\_P-A; FJ692562\_HBc\_P-  
A; GQ184323\_HBc\_P-A; HE576989\_HBc\_P-A; HM535205\_HBc\_P-A; JF439820\_HBc\_P-A;  
JF439824\_HBc\_P-A; JF439825\_HBc\_P-A; JF439827\_HBc\_P-A; JF439845\_HBc\_P-A; JF439855\_HBc\_P-  
A; JF439861\_HBc\_P-A; JF439952\_HBc\_P-A; JF439973\_HBc\_P-A; JF439979\_HBc\_P-A;  
JF439981\_HBc\_P-A; JF439985\_HBc\_P-A; JF439990\_HBc\_P-A; JF439992\_HBc\_P-A; JN182323\_HBc\_P-  
A; JQ707314\_HBc\_P-A; JQ707318\_HBc\_P-A; JQ707319\_HBc\_P-A; JQ707321\_HBc\_P-A;  
JQ707322\_HBc\_P-A; JQ707325\_HBc\_P-A; JQ707329\_HBc\_P-A; JQ707337\_HBc\_P-A;  
JQ707339\_HBc\_P-A; JQ707345\_HBc\_P-A; JQ707347\_HBc\_P-A; JQ707348\_HBc\_P-A;  
JQ707349\_HBc\_P-A; JQ707350\_HBc\_P-A; JQ707351\_HBc\_P-A; JQ707352\_HBc\_P-A;  
JQ707353\_HBc\_P-A; JQ707354\_HBc\_P-A; JQ707355\_HBc\_P-A; JQ707357\_HBc\_P-A;  
JQ707358\_HBc\_P-A; JQ707359\_HBc\_P-A; JQ707360\_HBc\_P-A; JQ707361\_HBc\_P-A;  
JQ707362\_HBc\_P-A; JQ707363\_HBc\_P-A; JQ707364\_HBc\_P-A; JQ707365\_HBc\_P-A;  
JQ707366\_HBc\_P-A; JQ707367\_HBc\_P-A; JQ707370\_HBc\_P-A; JQ707396\_HBc\_P-A;  
JQ707534\_HBc\_P-A; JQ707655\_HBc\_P-A; JQ707658\_HBc\_P-A; JQ707659\_HBc\_P-A;  
JQ707661\_HBc\_P-A; JQ707662\_HBc\_P-A; JQ707663\_HBc\_P-A; JQ707664\_HBc\_P-A;  
JQ707665\_HBc\_P-A; JQ707667\_HBc\_P-A; JQ707669\_HBc\_P-A; JQ707670\_HBc\_P-A;  
JQ707672\_HBc\_P-A; JQ707674\_HBc\_P-A; JQ707675\_HBc\_P-A; JQ707676\_HBc\_P-A;  
JQ707681\_HBc\_P-A; KC875252\_HBc\_P-A; KC875258\_HBc\_P-A; KF779239\_HBc\_P-A;  
KF779252\_HBc\_P-A; KF779260\_HBc\_P-A; KF779281\_HBc\_P-A; KF779284\_HBc\_P-A;  
KF779351\_HBc\_P-A; KF779365\_HBc\_P-A; KF779381\_HBc\_P-A; KF798271\_HBc\_P-A;



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**PepMix™ HBV (Capsid Protein) Ultra**

KF798291\_HBc\_P-A; KJ854691\_HBc\_P-A; V00866\_HBc\_P-A; AB023677\_HBc\_P-B; AB048705\_HBc\_P-B; AB355453\_HBc\_P-B; AF323470\_HBc\_P-B; AF324078\_HBc\_P-B; AF324101\_HBc\_P-B; AF335740\_HBc\_P-B; AY269065\_HBc\_P-B; EF473977\_HBc\_P-B; EU306707\_HBc\_P-B; EU330997\_HBc\_P-B; EU439021\_HBc\_P-B; FJ562303\_HBc\_P-B; GQ475340\_HBc\_P-B; GQ924610\_HBc\_P-B; GU815635\_HBc\_P-B; GU815676\_HBc\_P-B; GU815699\_HBc\_P-B; GU815701\_HBc\_P-B; GU815706\_HBc\_P-B; GU815707\_HBc\_P-B; GU815710\_HBc\_P-B; GU815772\_HBc\_P-B; GU815773\_HBc\_P-B; GU815774\_HBc\_P-B; GU815776\_HBc\_P-B; GU815779\_HBc\_P-B; GU815781\_HBc\_P-B; GU815782\_HBc\_P-B; GU815783\_HBc\_P-B; KC774365\_HBc\_P-B; KC774371\_HBc\_P-B; KC774383\_HBc\_P-B; KC774389\_HBc\_P-B; KC774395\_HBc\_P-B; KC774400\_HBc\_P-B; KF167010\_HBc\_P-B; KJ173348\_HBc\_P-B; KJ173356\_HBc\_P-B; KJ173382\_HBc\_P-B; KJ173413\_HBc\_P-B; AB014365\_HBc\_P-C; AB014374\_HBc\_P-C; AB014378\_HBc\_P-C; AB014381\_HBc\_P-C; AB014390\_HBc\_P-C; AB014391\_HBc\_P-C; AB033553\_HBc\_P-C; AB105173\_HBc\_P-C; AB112348\_HBc\_P-C; AB112471\_HBc\_P-C; AB205124\_HBc\_P-C; AB246346\_HBc\_P-C; AB367410\_HBc\_P-C; AB367412\_HBc\_P-C; AB367431\_HBc\_P-C; AB471851\_HBc\_P-C; AB642099\_HBc\_P-C; AB670290\_HBc\_P-C; AB670302\_HBc\_P-C; AF241411\_HBc\_P-C; AF384371\_HBc\_P-C; AF384372\_HBc\_P-C; AY247031\_HBc\_P-C; AY641561\_HBc\_P-C; D50517\_HBc\_P-C; D50518\_HBc\_P-C; DQ144553\_HBc\_P-C; DQ144603\_HBc\_P-C; DQ144604\_HBc\_P-C; DQ377162\_HBc\_P-C; DQ377165\_HBc\_P-C; DQ975273\_HBc\_P-C; DQ980550\_HBc\_P-C; DQ993691\_HBc\_P-C; EF197911\_HBc\_P-C; EF494377\_HBc\_P-C; EU305541\_HBc\_P-C; EU305542\_HBc\_P-C; EU306719\_HBc\_P-C; EU560441\_HBc\_P-C; EU570067\_HBc\_P-C; EU589340\_HBc\_P-C; EU589341\_HBc\_P-C; EU589342\_HBc\_P-C; EU916212\_HBc\_P-C; EU916223\_HBc\_P-C; EU916229\_HBc\_P-C; EU919168\_HBc\_P-C; FJ151413\_HBc\_P-C; FJ386576\_HBc\_P-C; FJ386601\_HBc\_P-C; FJ386618\_HBc\_P-C; FJ386631\_HBc\_P-C; FJ386637\_HBc\_P-C; FJ386650\_HBc\_P-C; FJ562233\_HBc\_P-C; FJ562256\_HBc\_P-C; FJ562268\_HBc\_P-C; FJ562281\_HBc\_P-C; FJ562284\_HBc\_P-C; FJ562290\_HBc\_P-C; FJ562295\_HBc\_P-C; FJ715364\_HBc\_P-C; FJ715381\_HBc\_P-C; FJ787481\_HBc\_P-C; FJ787486\_HBc\_P-C; FJ899776\_HBc\_P-C; FJ899777\_HBc\_P-C; GQ377545\_HBc\_P-C; GQ377577\_HBc\_P-C; GQ475322\_HBc\_P-C; GQ475332\_HBc\_P-C; GQ872210\_HBc\_P-C; HQ700456\_HBc\_P-C; HQ700495\_HBc\_P-C; HQ700496\_HBc\_P-C; HQ700502\_HBc\_P-C; HQ700504\_HBc\_P-C; JN104437\_HBc\_P-C; JQ040154\_HBc\_P-C; JQ801490\_HBc\_P-C; JX026884\_HBc\_P-C; JX026885\_HBc\_P-C; JX036339\_HBc\_P-C; JX429905\_HBc\_P-C; JX507214\_HBc\_P-C; JX560520\_HBc\_P-C; KC774195\_HBc\_P-C; KC774211\_HBc\_P-C; KC774217\_HBc\_P-C; KC774227\_HBc\_P-C; KC774243\_HBc\_P-C; KC774251\_HBc\_P-C; KC774259\_HBc\_P-C; KC774264\_HBc\_P-C; KC774278\_HBc\_P-C; KC774286\_HBc\_P-C; KC774316\_HBc\_P-C; KC774326\_HBc\_P-C; KC774345\_HBc\_P-C; KC774346\_HBc\_P-C; KC774357\_HBc\_P-C; KC875273\_HBc\_P-C; KF779300\_HBc\_P-C; KJ173302\_HBc\_P-C; KJ173431\_HBc\_P-C; KJ598642\_HBc\_P-C; KJ598645\_HBc\_P-C; KJ598647\_HBc\_P-C; KJ598648\_HBc\_P-C; KJ598652\_HBc\_P-C; KJ598655\_HBc\_P-C; KJ598660\_HBc\_P-C; KJ598681\_HBc\_P-C; KJ598705\_HBc\_P-C; KJ598706\_HBc\_P-C; KJ598707\_HBc\_P-C; KJ598708\_HBc\_P-C; KJ598709\_HBc\_P-C; KJ598711\_HBc\_P-C; KJ598712\_HBc\_P-C; KJ598713\_HBc\_P-C; KJ598714\_HBc\_P-C; KJ598715\_HBc\_P-C; KJ598717\_HBc\_P-C; KJ598718\_HBc\_P-C; KJ598719\_HBc\_P-C; KJ803774\_HBc\_P-C; KJ803813\_HBc\_P-C; AB078031\_HBc\_P-D; AB078032\_HBc\_P-D; AB078033\_HBc\_P-D; AB222709\_HBc\_P-D; AY721605\_HBc\_P-D;



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**PepMix™ HBV (Capsid Protein) Ultra**

DQ178020\_HBc\_P-D; EU787443\_HBc\_P-D; FJ904412\_HBc\_P-D; GQ183470\_HBc\_P-D;  
GU456661\_HBc\_P-D; GU456667\_HBc\_P-D; GU456668\_HBc\_P-D; HM750152\_HBc\_P-D;  
JF754597\_HBc\_P-D; JN040756\_HBc\_P-D; JN040767\_HBc\_P-D; JN040792\_HBc\_P-D;  
JN642130\_HBc\_P-D; JN642138\_HBc\_P-D; JN664947\_HBc\_P-D; JX096955\_HBc\_P-D;  
KC774459\_HBc\_P-D; KC774477\_HBc\_P-D; KC875284\_HBc\_P-D; KC875287\_HBc\_P-D;  
KC875299\_HBc\_P-D; KC875302\_HBc\_P-D; KC875306\_HBc\_P-D; KC875309\_HBc\_P-D;  
KF471645\_HBc\_P-D; KF471653\_HBc\_P-D; KF471660\_HBc\_P-D; KF779225\_HBc\_P-D; X65258\_HBc\_P-  
D; X85302\_HBc\_P-D; AB274973\_HBc\_P-E; AB274978\_HBc\_P-E; AB274981\_HBc\_P-E;  
AF350114\_HBc\_P-E; AF350123\_HBc\_P-E; AF350215\_HBc\_P-E; AM494807\_HBc\_P-E;  
GQ161791\_HBc\_P-E; GQ161836\_HBc\_P-E; AY090459\_HBc\_P-F; DQ823087\_HBc\_P-F;  
EU670262\_HBc\_P-F; KJ638659\_HBc\_P-F; KJ843163\_HBc\_P-F; KJ843167\_HBc\_P-F; KJ843202\_HBc\_P-  
F; HE981172\_HBc\_P-G; AB205010\_HBc\_P-H; JX896128\_HBc\_P-H; AF297620\_HBc\_P-RF-DA;  
AY161147\_HBc\_P-RF-DA; EU833889\_HBc\_P-RF-GA; EU916239\_HBc\_P-RF-CB; EU916240\_HBc\_P-RF-  
CB; EU916241\_HBc\_P-RF-CB; FJ904403\_HBc\_P-RF-DE; GQ377602\_HBc\_P-RF-CB; GQ377613\_HBc\_P-  
RF-CB; GQ377633\_HBc\_P-RF-CB; HM750147\_HBc\_P-RF-DC; HQ700509\_HBc\_P-RF-CB;  
JN104438\_HBc\_P-RF-CB; KC774188\_HBc\_P-RF-CB; KC774222\_HBc\_P-RF-CB; KC774291\_HBc\_P-RF-CB;  
KC774307\_HBc\_P-RF-CB; KC774420\_HBc\_P-RF-DC; KC774432\_HBc\_P-RF-DC; KC774443\_HBc\_P-RF-  
DC; KC774461\_HBc\_P-RF-DC; KC774463\_HBc\_P-RF-DC; KC774484\_HBc\_P-RF-DC; KC774494\_HBc\_P-  
RF-DC; KC774498\_HBc\_P-RF-DC; KJ173280\_HBc\_P-RF-CB; X68292\_HBc\_P-RF-DA; X75656\_HBc\_P-RF-  
CB

**86 Protein sequences are covered at 95 %:**

AF324133\_HBc\_P-A; FN545840\_HBc\_P-A; GQ477495\_HBc\_P-A; GQ477496\_HBc\_P-A;  
JF439958\_HBc\_P-A; JF439969\_HBc\_P-A; JQ707369\_HBc\_P-A; KF779254\_HBc\_P-A; KF798265\_HBc\_P-  
A; EF473971\_HBc\_P-B; EU306712\_HBc\_P-B; FJ386683\_HBc\_P-B; GQ377610\_HBc\_P-B;  
GU815558\_HBc\_P-B; GU815587\_HBc\_P-B; GU815695\_HBc\_P-B; JX504538\_HBc\_P-B;  
KC774370\_HBc\_P-B; KJ803764\_HBc\_P-B; AB014388\_HBc\_P-C; AB367418\_HBc\_P-C;  
AB367428\_HBc\_P-C; AB367434\_HBc\_P-C; AB670269\_HBc\_P-C; AF458664\_HBc\_P-C;  
AY206386\_HBc\_P-C; DQ089780\_HBc\_P-C; DQ478899\_HBc\_P-C; EU439005\_HBc\_P-C;  
EU498227\_HBc\_P-C; EU562216\_HBc\_P-C; EU570073\_HBc\_P-C; EU570074\_HBc\_P-C;  
EU916215\_HBc\_P-C; EU939574\_HBc\_P-C; FJ032334\_HBc\_P-C; FJ032355\_HBc\_P-C; FJ386574\_HBc\_P-  
C; FJ386603\_HBc\_P-C; FJ715376\_HBc\_P-C; GQ377521\_HBc\_P-C; GQ377609\_HBc\_P-C;  
HM750141\_HBc\_P-C; JQ027319\_HBc\_P-C; JQ801493\_HBc\_P-C; KC774300\_HBc\_P-C;  
KC875268\_HBc\_P-C; KF873541\_HBc\_P-C; KJ598691\_HBc\_P-C; KJ598726\_HBc\_P-C; KJ803790\_HBc\_P-  
C; AB270539\_HBc\_P-D; AB674425\_HBc\_P-D; AY161158\_HBc\_P-D; AY945307\_HBc\_P-D;  
DQ464168\_HBc\_P-D; EF103279\_HBc\_P-D; EU726935\_HBc\_P-D; GQ205385\_HBc\_P-D;  
GQ924652\_HBc\_P-D; JF754588\_HBc\_P-D; JN132130\_HBc\_P-D; JN558561\_HBc\_P-D;  
JN642133\_HBc\_P-D; KC875276\_HBc\_P-D; KC875300\_HBc\_P-D; KC875314\_HBc\_P-D;  
KC875318\_HBc\_P-D; KC875320\_HBc\_P-D; KC875330\_HBc\_P-D; KF779216\_HBc\_P-D;  
AF350206\_HBc\_P-E; AM494806\_HBc\_P-E; AM494811\_HBc\_P-E; GQ161833\_HBc\_P-E;



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**PepMix™ HBV (Capsid Protein) Ultra**

KC494396\_HBc\_P-F; KC494401\_HBc\_P-F; HE981171\_HBc\_P-G; AB188245\_HBc\_P-RF-DE;  
EF103285\_HBc\_P-RF-DE; EU871997\_HBc\_P-RF-CB; FJ386633\_HBc\_P-RF-CB; FJ562226\_HBc\_P-RF-CB;  
GQ377611\_HBc\_P-RF-CB; JF436923\_HBc\_P-RF-CB; KJ803753\_HBc\_P-RF-CB

**236 Protein sequences are covered at 94 %:**

AB116078\_HBc\_P-A; AB126580\_HBc\_P-A; AF297621\_HBc\_P-A; AF324127\_HBc\_P-A;  
AF537371\_HBc\_P-A; AY738140\_HBc\_P-A; AY738141\_HBc\_P-A; EU185787\_HBc\_P-A;  
EU185789\_HBc\_P-A; FJ692575\_HBc\_P-A; FJ692606\_HBc\_P-A; FJ692608\_HBc\_P-A;  
GQ477479\_HBc\_P-A; JF439829\_HBc\_P-A; JF439869\_HBc\_P-A; JF439870\_HBc\_P-A; JF439871\_HBc\_P-  
A; JF439872\_HBc\_P-A; JF439873\_HBc\_P-A; JF439874\_HBc\_P-A; JF439875\_HBc\_P-A;  
JF439876\_HBc\_P-A; JF439877\_HBc\_P-A; JF439878\_HBc\_P-A; JF439879\_HBc\_P-A; JF439880\_HBc\_P-  
A; JF439881\_HBc\_P-A; JF439882\_HBc\_P-A; JF439883\_HBc\_P-A; JF439962\_HBc\_P-A;  
JQ707312\_HBc\_P-A; KF779361\_HBc\_P-A; KF798267\_HBc\_P-A; KJ843172\_HBc\_P-A;  
AB713531\_HBc\_P-B; AB908300\_HBc\_P-B; AF324085\_HBc\_P-B; AF480350\_HBc\_P-B;  
AY596103\_HBc\_P-B; D23679\_HBc\_P-B; DQ144564\_HBc\_P-B; DQ144594\_HBc\_P-B;  
DQ144602\_HBc\_P-B; DQ361535\_HBc\_P-B; EF134945\_HBc\_P-B; EU881997\_HBc\_P-B;  
EU881998\_HBc\_P-B; FJ562237\_HBc\_P-B; JQ707734\_HBc\_P-B; JQ707735\_HBc\_P-B;  
JQ707737\_HBc\_P-B; JQ707738\_HBc\_P-B; JQ707739\_HBc\_P-B; JQ707740\_HBc\_P-B;  
JQ707742\_HBc\_P-B; JQ707743\_HBc\_P-B; JQ707744\_HBc\_P-B; JQ707745\_HBc\_P-B;  
JQ707746\_HBc\_P-B; JQ707747\_HBc\_P-B; JQ707749\_HBc\_P-B; JQ707750\_HBc\_P-B;  
JQ707753\_HBc\_P-B; JQ707755\_HBc\_P-B; JQ707758\_HBc\_P-B; JQ707759\_HBc\_P-B;  
JQ707762\_HBc\_P-B; JQ707763\_HBc\_P-B; JQ707764\_HBc\_P-B; JQ707765\_HBc\_P-B;  
JQ707766\_HBc\_P-B; JQ707767\_HBc\_P-B; KC774368\_HBc\_P-B; KC774405\_HBc\_P-B;  
KC774410\_HBc\_P-B; KJ173298\_HBc\_P-B; KJ173368\_HBc\_P-B; KJ803784\_HBc\_P-B; KJ803825\_HBc\_P-  
B; KM213036\_HBc\_P-B; AB014363\_HBc\_P-C; AB014384\_HBc\_P-C; AB014399\_HBc\_P-C;  
AB042282\_HBc\_P-C; AB205125\_HBc\_P-C; AB367416\_HBc\_P-C; AB670241\_HBc\_P-C;  
AF182803\_HBc\_P-C; AF533983\_HBc\_P-C; DQ089786\_HBc\_P-C; DQ089796\_HBc\_P-C;  
DQ922649\_HBc\_P-C; EF384201\_HBc\_P-C; EU522068\_HBc\_P-C; EU796069\_HBc\_P-C;  
EU871969\_HBc\_P-C; EU871971\_HBc\_P-C; EU939537\_HBc\_P-C; EU939564\_HBc\_P-C;  
EU939571\_HBc\_P-C; EU939614\_HBc\_P-C; FJ023640\_HBc\_P-C; FJ386604\_HBc\_P-C; FJ386627\_HBc\_P-  
C; FJ386657\_HBc\_P-C; FJ562225\_HBc\_P-C; FJ562304\_HBc\_P-C; FJ751765\_HBc\_P-C;  
FJ787437\_HBc\_P-C; FJ787461\_HBc\_P-C; GQ377583\_HBc\_P-C; GQ377628\_HBc\_P-C;  
GQ377636\_HBc\_P-C; GQ475344\_HBc\_P-C; GQ475349\_HBc\_P-C; GQ475355\_HBc\_P-C;  
GQ475357\_HBc\_P-C; GQ855541\_HBc\_P-C; HM011497\_HBc\_P-C; JF828921\_HBc\_P-C;  
JF828922\_HBc\_P-C; JF828928\_HBc\_P-C; JX429903\_HBc\_P-C; KC774218\_HBc\_P-C; KC774221\_HBc\_P-  
C; KC774302\_HBc\_P-C; KC774311\_HBc\_P-C; KC774331\_HBc\_P-C; KJ410498\_HBc\_P-C;  
KJ598646\_HBc\_P-C; KJ598649\_HBc\_P-C; KJ598650\_HBc\_P-C; KJ598651\_HBc\_P-C; KJ598653\_HBc\_P-  
C; KJ598661\_HBc\_P-C; KJ598750\_HBc\_P-C; AB090268\_HBc\_P-D; AB222710\_HBc\_P-D;  
AB270546\_HBc\_P-D; AF419530\_HBc\_P-D; AY796030\_HBc\_P-D; DQ178016\_HBc\_P-D;  
DQ304550\_HBc\_P-D; DQ304551\_HBc\_P-D; DQ464182\_HBc\_P-D; EU594434\_HBc\_P-D;



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EU726845\_HBc\_P-D; EU726853\_HBc\_P-D; EU726893\_HBc\_P-D; EU726921\_HBc\_P-D;  
FJ349206\_HBc\_P-D; FJ349230\_HBc\_P-D; FJ349233\_HBc\_P-D; FJ692532\_HBc\_P-D; FJ692533\_HBc\_P-D;  
GQ205382\_HBc\_P-D; GQ205389\_HBc\_P-D; GU456638\_HBc\_P-D; GU456662\_HBc\_P-D;  
JF439692\_HBc\_P-D; JF439696\_HBc\_P-D; JF439699\_HBc\_P-D; JF439703\_HBc\_P-D; JF754627\_HBc\_P-D;  
JN040785\_HBc\_P-D; JN040824\_HBc\_P-D; JN040828\_HBc\_P-D; JN257211\_HBc\_P-D;  
JN664914\_HBc\_P-D; JN664939\_HBc\_P-D; JQ707511\_HBc\_P-D; KC774436\_HBc\_P-D;  
KC774460\_HBc\_P-D; KC875289\_HBc\_P-D; KC875296\_HBc\_P-D; KC875308\_HBc\_P-D;  
KC875312\_HBc\_P-D; KC875315\_HBc\_P-D; KC875331\_HBc\_P-D; KC875340\_HBc\_P-D;  
KJ470889\_HBc\_P-D; KJ843187\_HBc\_P-D; X85318\_HBc\_P-D; X97848\_HBc\_P-D; AF350159\_HBc\_P-E;  
AF350219\_HBc\_P-E; AF350220\_HBc\_P-E; EU239223\_HBc\_P-E; GQ161760\_HBc\_P-E;  
GQ161773\_HBc\_P-E; GQ161785\_HBc\_P-E; GQ161802\_HBc\_P-E; GQ161826\_HBc\_P-E;  
KF798275\_HBc\_P-E; KJ638656\_HBc\_P-F; JX896133\_HBc\_P-H; AB033559\_HBc\_P-RF-DE;  
AB194949\_HBc\_P-RF-AE; AB367400\_HBc\_P-RF-CB; AB493838\_HBc\_P-RF-CB; AB493842\_HBc\_P-RF-CB;  
AF411409\_HBc\_P-RF-CB; DQ315779\_HBc\_P-RF-DE; EF494376\_HBc\_P-RF-CA; EU185780\_HBc\_P-RF-AD;  
EU871992\_HBc\_P-RF-CB; EU871993\_HBc\_P-RF-CB; EU871996\_HBc\_P-RF-CB;  
EU872014\_HBc\_P-RF-CB; EU872015\_HBc\_P-RF-CB; EU919167\_HBc\_P-RF-CB; FJ386581\_HBc\_P-RF-CB;  
GQ331048\_HBc\_P-RF-AE; GU357843\_HBc\_P-RF-CB; HM750148\_HBc\_P-RF-DC;  
HQ700497\_HBc\_P-RF-DE; HQ700501\_HBc\_P-RF-DE; HQ700503\_HBc\_P-RF-DE; HQ700515\_HBc\_P-RF-CB;  
HQ700524\_HBc\_P-RF-DE; HQ700525\_HBc\_P-RF-DE; HQ700533\_HBc\_P-RF-DE;  
HQ700541\_HBc\_P-RF-DE; JN664940\_HBc\_P-RF-DE; KC012653\_HBc\_P-RF-AD; KC774178\_HBc\_P-RF-BC;  
KC774305\_HBc\_P-RF-CB; KC774364\_HBc\_P-RF-BC; KC774428\_HBc\_P-RF-DC; KC774450\_HBc\_P-RF-DE;  
KJ470884\_HBc\_P-RF-DE; KJ470886\_HBc\_P-RF-DE; KJ470887\_HBc\_P-RF-DE; KJ470888\_HBc\_P-RF-DE;  
KJ470890\_HBc\_P-RF-DE; Y18857\_HBc\_P-RF-CB

**170 Protein sequences are covered at 93 %:**

AB194951\_HBc\_P-A; EU859952\_HBc\_P-A; GQ331047\_HBc\_P-A; JF439750\_HBc\_P-A;  
KC875259\_HBc\_P-A; KF779329\_HBc\_P-A; AB073831\_HBc\_P-B; AB073845\_HBc\_P-B;  
AB908303\_HBc\_P-B; AF157024\_HBc\_P-B; AF324066\_HBc\_P-B; AF480342\_HBc\_P-B;  
AY217360\_HBc\_P-B; AY596110\_HBc\_P-B; EF494380\_HBc\_P-B; EU306678\_HBc\_P-B;  
FJ023605\_HBc\_P-B; FJ023607\_HBc\_P-B; FJ023609\_HBc\_P-B; FJ023611\_HBc\_P-B; FJ023612\_HBc\_P-B;  
FJ023614\_HBc\_P-B; FJ667207\_HBc\_P-B; FJ755833\_HBc\_P-B; GQ358148\_HBc\_P-B;  
GQ377625\_HBc\_P-B; GQ855526\_HBc\_P-B; GQ924624\_HBc\_P-B; GU815712\_HBc\_P-B;  
GU815761\_HBc\_P-B; GU815764\_HBc\_P-B; GU815775\_HBc\_P-B; GU815777\_HBc\_P-B;  
JF775482\_HBc\_P-B; JF775483\_HBc\_P-B; JQ040125\_HBc\_P-B; KC774396\_HBc\_P-B; KC774408\_HBc\_P-B;  
KJ410490\_HBc\_P-B; M54923\_HBc\_P-B; AB014376\_HBc\_P-C; AB112066\_HBc\_P-C;  
AB202071\_HBc\_P-C; AB367407\_HBc\_P-C; AB367422\_HBc\_P-C; AB367424\_HBc\_P-C;  
AF182804\_HBc\_P-C; AF324084\_HBc\_P-C; AY247032\_HBc\_P-C; AY596108\_HBc\_P-C;  
DQ089803\_HBc\_P-C; DQ922651\_HBc\_P-C; DQ975274\_HBc\_P-C; EU871970\_HBc\_P-C;  
EU871972\_HBc\_P-C; EU939569\_HBc\_P-C; EU939583\_HBc\_P-C; EU939615\_HBc\_P-C;  
FJ023567\_HBc\_P-C; FJ023568\_HBc\_P-C; FJ023587\_HBc\_P-C; FJ023590\_HBc\_P-C; FJ023591\_HBc\_P-C;





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FJ023648\_HBc\_P-C; FJ032346\_HBc\_P-C; FJ032359\_HBc\_P-C; FJ032360\_HBc\_P-C; FJ386611\_HBc\_P-C; FJ386626\_HBc\_P-C; FJ386653\_HBc\_P-C; FJ562232\_HBc\_P-C; FJ562332\_HBc\_P-C; FJ715344\_HBc\_P-C; FJ715372\_HBc\_P-C; FJ715383\_HBc\_P-C; FJ715403\_HBc\_P-C; FJ787442\_HBc\_P-C; FJ787443\_HBc\_P-C; FJ787458\_HBc\_P-C; FJ787464\_HBc\_P-C; FJ787465\_HBc\_P-C; GQ377599\_HBc\_P-C; GQ377632\_HBc\_P-C; GQ475326\_HBc\_P-C; GQ924613\_HBc\_P-C; JQ801522\_HBc\_P-C; KC774194\_HBc\_P-C; KC774334\_HBc\_P-C; KC774338\_HBc\_P-C; KC875263\_HBc\_P-C; KF873516\_HBc\_P-C; KJ173432\_HBc\_P-C; KJ598654\_HBc\_P-C; KJ598656\_HBc\_P-C; KJ598657\_HBc\_P-C; KJ803815\_HBc\_P-C; X52939\_HBc\_P-C; AB210821\_HBc\_P-D; AB210822\_HBc\_P-D; AY371916\_HBc\_P-D; AY721607\_HBc\_P-D; AY721608\_HBc\_P-D; DQ304547\_HBc\_P-D; EU155893\_HBc\_P-D; EU726904\_HBc\_P-D; EU919197\_HBc\_P-D; GU456663\_HBc\_P-D; HQ700483\_HBc\_P-D; JF439712\_HBc\_P-D; JF754618\_HBc\_P-D; JN040809\_HBc\_P-D; JN132132\_HBc\_P-D; JN257170\_HBc\_P-D; JN257179\_HBc\_P-D; JN642143\_HBc\_P-D; JN664910\_HBc\_P-D; JN664932\_HBc\_P-D; JN792903\_HBc\_P-D; JQ707484\_HBc\_P-D; JQ707493\_HBc\_P-D; KC875305\_HBc\_P-D; KC875329\_HBc\_P-D; KC875333\_HBc\_P-D; X85298\_HBc\_P-D; AF350110\_HBc\_P-E; AF350153\_HBc\_P-E; AF350167\_HBc\_P-E; AF350173\_HBc\_P-E; AF350175\_HBc\_P-E; AF350188\_HBc\_P-E; AM494711\_HBc\_P-E; AM494805\_HBc\_P-E; AY739675\_HBc\_P-E; AY935700\_HBc\_P-E; GQ161758\_HBc\_P-E; GQ161766\_HBc\_P-E; GQ161774\_HBc\_P-E; GQ161782\_HBc\_P-E; GQ161790\_HBc\_P-E; GQ161812\_HBc\_P-E; FJ589065\_HBc\_P-F; FJ657519\_HBc\_P-F; KC494404\_HBc\_P-F; JQ707673\_HBc\_P-G; AB059661\_HBc\_P-H; JX896129\_HBc\_P-H; AY817512\_HBc\_P-RF-DC; DQ315777\_HBc\_P-RF-DE; FJ023659\_HBc\_P-RF-BC; FJ023664\_HBc\_P-RF-GC; FJ023667\_HBc\_P-RF-GC; FJ023670\_HBc\_P-RF-GC; FJ023673\_HBc\_P-RF-GC; FJ349241\_HBc\_P-RF-DC; FJ386643\_HBc\_P-RF-CB; FJ882610\_HBc\_P-RF-GC; FJ882614\_HBc\_P-RF-GC; FN594771\_HBc\_P-RF-DE; FR714490\_HBc\_P-RF-GB; HM750142\_HBc\_P-RF-DC; JF436919\_HBc\_P-RF-CB; KC172106\_HBc\_P-RF-GB; KC774414\_HBc\_P-RF-BC; KC774454\_HBc\_P-RF-DC; KC774479\_HBc\_P-RF-DC; KF917451\_HBc\_P-RF-DC; KJ173358\_HBc\_P-RF-CB; KJ803772\_HBc\_P-RF-BC; KJ803802\_HBc\_P-RF-CB; KJ803804\_HBc\_P-RF-CB

**190 Protein sequences are covered at 92 %:**

AJ309369\_HBc\_P-A; AJ309371\_HBc\_P-A; EU859938\_HBc\_P-A; EU859944\_HBc\_P-A; GQ477478\_HBc\_P-A; GQ477484\_HBc\_P-A; GQ477498\_HBc\_P-A; GU563551\_HBc\_P-A; JF439954\_HBc\_P-A; JQ023660\_HBc\_P-A; JQ707577\_HBc\_P-A; JQ707595\_HBc\_P-A; JQ707596\_HBc\_P-A; JQ707605\_HBc\_P-A; KC875255\_HBc\_P-A; AB493835\_HBc\_P-B; AB908299\_HBc\_P-B; AF335751\_HBc\_P-B; AF480361\_HBc\_P-B; EU306677\_HBc\_P-B; EU306679\_HBc\_P-B; EU306680\_HBc\_P-B; EU330996\_HBc\_P-B; EU487256\_HBc\_P-B; EU939633\_HBc\_P-B; EU939634\_HBc\_P-B; FJ023575\_HBc\_P-B; FJ023620\_HBc\_P-B; FJ562234\_HBc\_P-B; FJ562262\_HBc\_P-B; GQ358140\_HBc\_P-B; GQ924647\_HBc\_P-B; GU815574\_HBc\_P-B; GU815577\_HBc\_P-B; GU815578\_HBc\_P-B; GU815747\_HBc\_P-B; GU815748\_HBc\_P-B; KJ803796\_HBc\_P-B; AB014379\_HBc\_P-C; AB014380\_HBc\_P-C; AB111125\_HBc\_P-C; AB195942\_HBc\_P-C; AB195943\_HBc\_P-C; AB195944\_HBc\_P-C; AB195947\_HBc\_P-C; AB195948\_HBc\_P-C; AB367423\_HBc\_P-C; AB367803\_HBc\_P-C; AB670277\_HBc\_P-C;



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AB670289\_HBc\_P-C; AF411410\_HBc\_P-C; AY167090\_HBc\_P-C; AY167092\_HBc\_P-C;  
AY641559\_HBc\_P-C; DQ993692\_HBc\_P-C; EU439013\_HBc\_P-C; EU522069\_HBc\_P-C;  
EU554540\_HBc\_P-C; EU871974\_HBc\_P-C; EU916226\_HBc\_P-C; EU939545\_HBc\_P-C;  
EU939550\_HBc\_P-C; EU939567\_HBc\_P-C; EU939584\_HBc\_P-C; EU939618\_HBc\_P-C;  
EU939648\_HBc\_P-C; EU939652\_HBc\_P-C; FJ023589\_HBc\_P-C; FJ386605\_HBc\_P-C; FJ386625\_HBc\_P-  
C; FJ386629\_HBc\_P-C; FJ386647\_HBc\_P-C; FJ386661\_HBc\_P-C; FJ386670\_HBc\_P-C;  
FJ562243\_HBc\_P-C; FJ562252\_HBc\_P-C; FJ562255\_HBc\_P-C; FJ562261\_HBc\_P-C; FJ562285\_HBc\_P-C;  
FJ562293\_HBc\_P-C; FJ562334\_HBc\_P-C; FJ715421\_HBc\_P-C; FJ787462\_HBc\_P-C; FJ787463\_HBc\_P-C;  
FJ899789\_HBc\_P-C; GQ475342\_HBc\_P-C; GQ924616\_HBc\_P-C; GQ924636\_HBc\_P-C;  
HM750134\_HBc\_P-C; HQ638218\_HBc\_P-C; JF828923\_HBc\_P-C; JF828924\_HBc\_P-C;  
JF828925\_HBc\_P-C; JF828926\_HBc\_P-C; JF828929\_HBc\_P-C; JF828930\_HBc\_P-C; JF828931\_HBc\_P-C;  
JQ027321\_HBc\_P-C; JQ040158\_HBc\_P-C; JQ801509\_HBc\_P-C; JX026878\_HBc\_P-C; KC774199\_HBc\_P-  
C; KC774275\_HBc\_P-C; KC774279\_HBc\_P-C; KC774282\_HBc\_P-C; KC774301\_HBc\_P-C;  
KC774306\_HBc\_P-C; KC774313\_HBc\_P-C; KC875264\_HBc\_P-C; KJ173290\_HBc\_P-C; KJ173337\_HBc\_P-  
C; KJ598644\_HBc\_P-C; KJ598721\_HBc\_P-C; KJ598752\_HBc\_P-C; KJ598772\_HBc\_P-C;  
AB120308\_HBc\_P-D; AB270549\_HBc\_P-D; AB674411\_HBc\_P-D; AJ344116\_HBc\_P-D;  
AY371913\_HBc\_P-D; AY741797\_HBc\_P-D; DQ336681\_HBc\_P-D; EU726847\_HBc\_P-D;  
EU726922\_HBc\_P-D; EU726943\_HBc\_P-D; EU726959\_HBc\_P-D; EU921419\_HBc\_P-D;  
FJ349234\_HBc\_P-D; FJ904420\_HBc\_P-D; FJ904421\_HBc\_P-D; GU456670\_HBc\_P-D;  
HQ700478\_HBc\_P-D; JF439718\_HBc\_P-D; JF754633\_HBc\_P-D; JN040752\_HBc\_P-D;  
JN040757\_HBc\_P-D; JN040777\_HBc\_P-D; JN040808\_HBc\_P-D; JN040822\_HBc\_P-D;  
JN257186\_HBc\_P-D; JN257205\_HBc\_P-D; JN558563\_HBc\_P-D; JN558564\_HBc\_P-D;  
JN664920\_HBc\_P-D; JN664921\_HBc\_P-D; JN664948\_HBc\_P-D; JN688679\_HBc\_P-D;  
KC875326\_HBc\_P-D; KF061170\_HBc\_P-D; KF471644\_HBc\_P-D; KF471658\_HBc\_P-D;  
LK995390\_HBc\_P-D; X85277\_HBc\_P-D; X85279\_HBc\_P-D; X85295\_HBc\_P-D; AF350168\_HBc\_P-E;  
AF350207\_HBc\_P-E; GQ161762\_HBc\_P-E; KF849720\_HBc\_P-E; AB188243\_HBc\_P-RF-DE;  
AB198084\_HBc\_P-RF-CB; EF103284\_HBc\_P-RF-AD; EU522070\_HBc\_P-RF-CB; EU871981\_HBc\_P-RF-  
CB; EU871983\_HBc\_P-RF-CB; EU871984\_HBc\_P-RF-CB; EU871986\_HBc\_P-RF-CB; EU871987\_HBc\_P-  
RF-CB; EU871988\_HBc\_P-RF-CB; EU871989\_HBc\_P-RF-CB; EU871990\_HBc\_P-RF-CB;  
EU871991\_HBc\_P-RF-CB; EU871995\_HBc\_P-RF-CB; EU871999\_HBc\_P-RF-CB; FJ904440\_HBc\_P-RF-  
DE; HQ684849\_HBc\_P-RF-BC; JF436922\_HBc\_P-RF-CB; JF828933\_HBc\_P-RF-CB; JF828934\_HBc\_P-RF-  
CB; JF828935\_HBc\_P-RF-CB; JF828936\_HBc\_P-RF-CB; JF828938\_HBc\_P-RF-CB; JN664915\_HBc\_P-RF-  
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RF-DC; KC875338\_HBc\_P-RF-DE; KC875339\_HBc\_P-RF-DE; KJ803798\_HBc\_P-RF-CB

**244 Protein sequences are covered at 91 %:**

AB246336\_HBc\_P-A; AF324072\_HBc\_P-A; AF324118\_HBc\_P-A; AF324123\_HBc\_P-A;  
AF419534\_HBc\_P-A; AY152726\_HBc\_P-A; DQ788725\_HBc\_P-A; EU859919\_HBc\_P-A;  
FJ692570\_HBc\_P-A; FJ692613\_HBc\_P-A; GQ477464\_HBc\_P-A; GQ477494\_HBc\_P-A;  
GU563550\_HBc\_P-A; JF439720\_HBc\_P-A; JF439721\_HBc\_P-A; JF439722\_HBc\_P-A; JF439723\_HBc\_P-



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**PepMix™ HBV (Capsid Protein) Ultra**

A; JF439726\_HBc\_P-A; JF439727\_HBc\_P-A; JF439730\_HBc\_P-A; JF439731\_HBc\_P-A;  
JF439732\_HBc\_P-A; JF439733\_HBc\_P-A; JF439735\_HBc\_P-A; JF439736\_HBc\_P-A; JF439741\_HBc\_P-  
A; JF439742\_HBc\_P-A; JF439746\_HBc\_P-A; JF439747\_HBc\_P-A; JF439822\_HBc\_P-A;  
JF439828\_HBc\_P-A; JF439896\_HBc\_P-A; JF439897\_HBc\_P-A; JF439898\_HBc\_P-A; JF439899\_HBc\_P-  
A; JF439901\_HBc\_P-A; JF439902\_HBc\_P-A; JF439903\_HBc\_P-A; JF439904\_HBc\_P-A;  
JF439905\_HBc\_P-A; JF439906\_HBc\_P-A; JF439907\_HBc\_P-A; JF439908\_HBc\_P-A; JF439909\_HBc\_P-  
A; JF439910\_HBc\_P-A; JF439964\_HBc\_P-A; JQ707574\_HBc\_P-A; JQ707575\_HBc\_P-A;  
JQ707579\_HBc\_P-A; JQ707580\_HBc\_P-A; JQ707581\_HBc\_P-A; JQ707583\_HBc\_P-A;  
JQ707584\_HBc\_P-A; JQ707585\_HBc\_P-A; JQ707586\_HBc\_P-A; JQ707587\_HBc\_P-A;  
JQ707588\_HBc\_P-A; JQ707589\_HBc\_P-A; JQ707590\_HBc\_P-A; JQ707591\_HBc\_P-A;  
JQ707592\_HBc\_P-A; JQ707597\_HBc\_P-A; JQ707599\_HBc\_P-A; JQ707603\_HBc\_P-A;  
JQ707604\_HBc\_P-A; JQ707606\_HBc\_P-A; JQ707608\_HBc\_P-A; KC875251\_HBc\_P-A;  
KF779213\_HBc\_P-A; KF779215\_HBc\_P-A; KF779297\_HBc\_P-A; KF779334\_HBc\_P-A;  
KF798266\_HBc\_P-A; AB205120\_HBc\_P-B; AB231909\_HBc\_P-B; AB287322\_HBc\_P-B;  
AB976562\_HBc\_P-B; AF157020\_HBc\_P-B; AF335748\_HBc\_P-B; AY217357\_HBc\_P-B;  
AY217358\_HBc\_P-B; D00329\_HBc\_P-B; DQ144543\_HBc\_P-B; DQ144544\_HBc\_P-B;  
DQ144546\_HBc\_P-B; DQ144548\_HBc\_P-B; DQ144552\_HBc\_P-B; DQ144554\_HBc\_P-B;  
DQ144555\_HBc\_P-B; DQ144557\_HBc\_P-B; DQ144558\_HBc\_P-B; DQ144565\_HBc\_P-B;  
DQ144567\_HBc\_P-B; DQ144569\_HBc\_P-B; DQ144570\_HBc\_P-B; DQ144574\_HBc\_P-B;  
DQ144575\_HBc\_P-B; DQ144578\_HBc\_P-B; DQ144582\_HBc\_P-B; DQ144583\_HBc\_P-B;  
DQ144584\_HBc\_P-B; DQ144586\_HBc\_P-B; DQ144590\_HBc\_P-B; DQ144593\_HBc\_P-B;  
DQ993707\_HBc\_P-B; EU306681\_HBc\_P-B; EU796066\_HBc\_P-B; EU939666\_HBc\_P-B;  
EU939673\_HBc\_P-B; FJ023573\_HBc\_P-B; FJ023576\_HBc\_P-B; FJ023608\_HBc\_P-B; FJ023628\_HBc\_P-  
B; FJ751767\_HBc\_P-B; GQ924607\_HBc\_P-B; GU815662\_HBc\_P-B; JQ429082\_HBc\_P-B;  
KC774377\_HBc\_P-B; AB014361\_HBc\_P-C; AB112472\_HBc\_P-C; AB195945\_HBc\_P-C;  
AB367395\_HBc\_P-C; AB367413\_HBc\_P-C; AB367435\_HBc\_P-C; AB670253\_HBc\_P-C;  
AB670266\_HBc\_P-C; AB670310\_HBc\_P-C; AF182802\_HBc\_P-C; AF182805\_HBc\_P-C;  
AY269140\_HBc\_P-C; DQ089794\_HBc\_P-C; DQ986376\_HBc\_P-C; EU871973\_HBc\_P-C;  
EU939585\_HBc\_P-C; EU939647\_HBc\_P-C; EU939655\_HBc\_P-C; EU939656\_HBc\_P-C;  
FJ023566\_HBc\_P-C; FJ386624\_HBc\_P-C; FJ562300\_HBc\_P-C; FJ562324\_HBc\_P-C; FJ715404\_HBc\_P-C;  
FJ787457\_HBc\_P-C; GQ372968\_HBc\_P-C; GQ924622\_HBc\_P-C; GQ924655\_HBc\_P-C;  
HM011491\_HBc\_P-C; HM011500\_HBc\_P-C; JQ429078\_HBc\_P-C; KC774352\_HBc\_P-C;  
KJ173316\_HBc\_P-C; KJ598720\_HBc\_P-C; KJ598723\_HBc\_P-C; KJ598724\_HBc\_P-C; KJ598725\_HBc\_P-  
C; KJ598728\_HBc\_P-C; KJ598729\_HBc\_P-C; KJ598731\_HBc\_P-C; KJ598732\_HBc\_P-C;  
KJ598734\_HBc\_P-C; KJ598735\_HBc\_P-C; KJ598738\_HBc\_P-C; KJ598739\_HBc\_P-C; KJ803757\_HBc\_P-  
C; AB267090\_HBc\_P-D; AB270537\_HBc\_P-D; AB674408\_HBc\_P-D; AY796031\_HBc\_P-D;  
DQ336688\_HBc\_P-D; DQ399006\_HBc\_P-D; EU594399\_HBc\_P-D; EU726947\_HBc\_P-D;  
GQ205384\_HBc\_P-D; GQ477454\_HBc\_P-D; GU456683\_HBc\_P-D; JF754595\_HBc\_P-D;  
JN040778\_HBc\_P-D; JN040791\_HBc\_P-D; JN040799\_HBc\_P-D; JN132126\_HBc\_P-D;  
JN558562\_HBc\_P-D; JN664926\_HBc\_P-D; JN697591\_HBc\_P-D; JQ707483\_HBc\_P-D;  
JQ707486\_HBc\_P-D; JQ707498\_HBc\_P-D; JQ707512\_HBc\_P-D; JQ707513\_HBc\_P-D;  
JQ707514\_HBc\_P-D; JQ707515\_HBc\_P-D; JQ707516\_HBc\_P-D; JQ707517\_HBc\_P-D;



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**PepMix™ HBV (Capsid Protein) Ultra**

JQ707518\_HBc\_P-D; JQ707519\_HBc\_P-D; JQ707520\_HBc\_P-D; JQ707521\_HBc\_P-D;  
JQ707522\_HBc\_P-D; JQ707523\_HBc\_P-D; JQ707524\_HBc\_P-D; JQ707525\_HBc\_P-D;  
JQ707526\_HBc\_P-D; JQ707527\_HBc\_P-D; JQ707528\_HBc\_P-D; JQ707530\_HBc\_P-D;  
KC875290\_HBc\_P-D; KF779289\_HBc\_P-D; X85255\_HBc\_P-D; AF350112\_HBc\_P-E; AF350115\_HBc\_P-E;  
AF350137\_HBc\_P-E; AF350154\_HBc\_P-E; AF350176\_HBc\_P-E; AM494714\_HBc\_P-E;  
FN545822\_HBc\_P-E; GQ161756\_HBc\_P-E; GQ161780\_HBc\_P-E; GQ161792\_HBc\_P-E;  
GQ161803\_HBc\_P-E; HM363569\_HBc\_P-E; HM363570\_HBc\_P-E; KF849719\_HBc\_P-E;  
DQ899149\_HBc\_P-F; DQ899150\_HBc\_P-F; FJ589067\_HBc\_P-F; JN792919\_HBc\_P-F; KJ843168\_HBc\_P-F;  
HM066946\_HBc\_P-H; HQ285946\_HBc\_P-H; AB367800\_HBc\_P-RF-CB; EU833890\_HBc\_P-RF-GA;  
EU939629\_HBc\_P-RF-BC; FJ562271\_HBc\_P-RF-CB; FJ715345\_HBc\_P-RF-CB; FJ715346\_HBc\_P-RF-CB;  
FJ715347\_HBc\_P-RF-CB; FJ904406\_HBc\_P-RF-DE; GQ161767\_HBc\_P-RF-AE; GQ205379\_HBc\_P-RF-DE;  
GQ205387\_HBc\_P-RF-DE; JN664933\_HBc\_P-RF-DA; JN664946\_HBc\_P-RF-DA; JQ707426\_HBc\_P-RF-GA;  
KC774485\_HBc\_P-RF-DC; KJ803803\_HBc\_P-RF-CB

**278 Protein sequences are covered at 90 %:**

FJ692599\_HBc\_P-A; FN545826\_HBc\_P-A; GQ477490\_HBc\_P-A; JF439734\_HBc\_P-A;  
JF439743\_HBc\_P-A; JF439826\_HBc\_P-A; JF439832\_HBc\_P-A; JF439986\_HBc\_P-A; JN182334\_HBc\_P-A;  
JQ707346\_HBc\_P-A; JQ707576\_HBc\_P-A; AB073835\_HBc\_P-B; AB117759\_HBc\_P-B;  
AB246340\_HBc\_P-B; AB302943\_HBc\_P-B; AB642094\_HBc\_P-B; AF100309\_HBc\_P-B;  
AF233234\_HBc\_P-B; AF282917\_HBc\_P-B; AF282918\_HBc\_P-B; AF324067\_HBc\_P-B;  
AF324082\_HBc\_P-B; AF480341\_HBc\_P-B; AF480345\_HBc\_P-B; AM888201\_HBc\_P-B;  
AY167101\_HBc\_P-B; AY517620\_HBc\_P-B; AY596106\_HBc\_P-B; AY800389\_HBc\_P-B;  
DQ144550\_HBc\_P-B; DQ144585\_HBc\_P-B; DQ995805\_HBc\_P-B; EU158262\_HBc\_P-B;  
EU439020\_HBc\_P-B; EU522066\_HBc\_P-B; EU660224\_HBc\_P-B; EU939638\_HBc\_P-B;  
FJ023606\_HBc\_P-B; FJ023613\_HBc\_P-B; FJ023618\_HBc\_P-B; FJ023630\_HBc\_P-B; FJ023633\_HBc\_P-B;  
FJ032349\_HBc\_P-B; FJ386675\_HBc\_P-B; FJ562236\_HBc\_P-B; FJ562253\_HBc\_P-B; FJ562254\_HBc\_P-B;  
GQ377519\_HBc\_P-B; GQ377582\_HBc\_P-B; GQ377622\_HBc\_P-B; GQ924644\_HBc\_P-B;  
GU815627\_HBc\_P-B; JQ040147\_HBc\_P-B; JQ429081\_HBc\_P-B; KJ173362\_HBc\_P-B;  
KJ173379\_HBc\_P-B; KJ173386\_HBc\_P-B; KJ803787\_HBc\_P-B; X97851\_HBc\_P-B; AB014360\_HBc\_P-C;  
AB014373\_HBc\_P-C; AB049610\_HBc\_P-C; AB111114\_HBc\_P-C; AB111121\_HBc\_P-C;  
AB117758\_HBc\_P-C; AB195936\_HBc\_P-C; AB195937\_HBc\_P-C; AB195938\_HBc\_P-C;  
AB367398\_HBc\_P-C; AB367414\_HBc\_P-C; AB697494\_HBc\_P-C; AY066028\_HBc\_P-C;  
AY206382\_HBc\_P-C; AY220699\_HBc\_P-C; AY641562\_HBc\_P-C; D28880\_HBc\_P-C; D50520\_HBc\_P-C;  
DQ089761\_HBc\_P-C; DQ089795\_HBc\_P-C; DQ089800\_HBc\_P-C; DQ683578\_HBc\_P-C;  
EF536065\_HBc\_P-C; EF536066\_HBc\_P-C; EU916210\_HBc\_P-C; EU939536\_HBc\_P-C;  
EU939543\_HBc\_P-C; EU939560\_HBc\_P-C; EU939572\_HBc\_P-C; EU939573\_HBc\_P-C;  
EU939588\_HBc\_P-C; EU939594\_HBc\_P-C; EU939612\_HBc\_P-C; EU939651\_HBc\_P-C;  
EU939659\_HBc\_P-C; FJ023624\_HBc\_P-C; FJ023645\_HBc\_P-C; FJ032347\_HBc\_P-C; FJ386613\_HBc\_P-C;  
FJ386651\_HBc\_P-C; FJ386671\_HBc\_P-C; FJ386689\_HBc\_P-C; FJ562238\_HBc\_P-C;  
FJ562239\_HBc\_P-C; FJ562266\_HBc\_P-C; FJ562299\_HBc\_P-C; FJ562307\_HBc\_P-C; FJ562308\_HBc\_P-C;



Innovative Peptide Solutions

**PepMix™ HBV (Capsid Protein) Ultra**

FJ562325\_HBc\_P-C; FJ562333\_HBc\_P-C; FJ562340\_HBc\_P-C; FJ715359\_HBc\_P-C; FJ787466\_HBc\_P-C; FJ787467\_HBc\_P-C; FJ787468\_HBc\_P-C; FJ899778\_HBc\_P-C; FJ899788\_HBc\_P-C; GQ227693\_HBc\_P-C; GQ227695\_HBc\_P-C; GQ259588\_HBc\_P-C; GQ377593\_HBc\_P-C; GQ377597\_HBc\_P-C; GQ475309\_HBc\_P-C; GQ475320\_HBc\_P-C; GQ475341\_HBc\_P-C; HQ700490\_HBc\_P-C; JF436920\_HBc\_P-C; JQ801489\_HBc\_P-C; JQ801503\_HBc\_P-C; JX504542\_HBc\_P-C; KC774207\_HBc\_P-C; KC774245\_HBc\_P-C; KC774340\_HBc\_P-C; KC774353\_HBc\_P-C; KF166858\_HBc\_P-C; KJ173445\_HBc\_P-C; KJ410505\_HBc\_P-C; KJ410508\_HBc\_P-C; KJ598722\_HBc\_P-C; KJ598727\_HBc\_P-C; KJ598730\_HBc\_P-C; KJ598733\_HBc\_P-C; KJ598736\_HBc\_P-C; KJ598737\_HBc\_P-C; KJ598780\_HBc\_P-C; KJ803769\_HBc\_P-C; S75184\_HBc\_P-C; AB270547\_HBc\_P-D; AF324141\_HBc\_P-D; AF419516\_HBc\_P-D; AY161159\_HBc\_P-D; AY161160\_HBc\_P-D; AY371918\_HBc\_P-D; AY373431\_HBc\_P-D; AY796032\_HBc\_P-D; DQ336680\_HBc\_P-D; DQ336682\_HBc\_P-D; DQ336684\_HBc\_P-D; EU726844\_HBc\_P-D; EU726849\_HBc\_P-D; EU726876\_HBc\_P-D; EU726906\_HBc\_P-D; EU726912\_HBc\_P-D; EU726957\_HBc\_P-D; EU726958\_HBc\_P-D; FJ349215\_HBc\_P-D; FJ904427\_HBc\_P-D; GQ183449\_HBc\_P-D; GQ183450\_HBc\_P-D; GQ183451\_HBc\_P-D; GQ183452\_HBc\_P-D; GQ183453\_HBc\_P-D; GQ183454\_HBc\_P-D; GQ183455\_HBc\_P-D; GQ183456\_HBc\_P-D; GQ183457\_HBc\_P-D; GQ183458\_HBc\_P-D; GQ183459\_HBc\_P-D; GQ183460\_HBc\_P-D; GQ183461\_HBc\_P-D; GQ183462\_HBc\_P-D; GQ183463\_HBc\_P-D; GQ183464\_HBc\_P-D; GQ183465\_HBc\_P-D; GQ183466\_HBc\_P-D; GQ183467\_HBc\_P-D; GQ183468\_HBc\_P-D; GQ183469\_HBc\_P-D; GQ477455\_HBc\_P-D; GU456635\_HBc\_P-D; GU456649\_HBc\_P-D; GU456673\_HBc\_P-D; HQ641710\_HBc\_P-D; HQ700474\_HBc\_P-D; JF439700\_HBc\_P-D; JF439701\_HBc\_P-D; JF754599\_HBc\_P-D; JF754604\_HBc\_P-D; JF754610\_HBc\_P-D; JF754623\_HBc\_P-D; JN040761\_HBc\_P-D; JN132127\_HBc\_P-D; JN132128\_HBc\_P-D; JN257201\_HBc\_P-D; JN642126\_HBc\_P-D; JN642129\_HBc\_P-D; JN642155\_HBc\_P-D; JN642156\_HBc\_P-D; JN642162\_HBc\_P-D; JN664909\_HBc\_P-D; JN688685\_HBc\_P-D; JQ707476\_HBc\_P-D; JQ707478\_HBc\_P-D; JQ707479\_HBc\_P-D; JQ707481\_HBc\_P-D; JQ707482\_HBc\_P-D; JQ707485\_HBc\_P-D; JQ707487\_HBc\_P-D; JQ707488\_HBc\_P-D; JQ707489\_HBc\_P-D; JQ707490\_HBc\_P-D; JQ707494\_HBc\_P-D; JQ707496\_HBc\_P-D; JQ707499\_HBc\_P-D; JQ707500\_HBc\_P-D; JQ707502\_HBc\_P-D; JQ707503\_HBc\_P-D; JQ707505\_HBc\_P-D; JQ707507\_HBc\_P-D; JQ707508\_HBc\_P-D; JX470760\_HBc\_P-D; KC012652\_HBc\_P-D; KC875295\_HBc\_P-D; KC875334\_HBc\_P-D; KC875341\_HBc\_P-D; KF018192\_HBc\_P-D; KF061167\_HBc\_P-D; KF061169\_HBc\_P-D; KF471655\_HBc\_P-D; KF471657\_HBc\_P-D; KF798301\_HBc\_P-D; AB274985\_HBc\_P-E; AF350111\_HBc\_P-E; AF350184\_HBc\_P-E; AF350191\_HBc\_P-E; AF350202\_HBc\_P-E; GQ161786\_HBc\_P-E; HM363584\_HBc\_P-E; KF849725\_HBc\_P-E; AB365449\_HBc\_P-F; JN792914\_HBc\_P-F; KJ843225\_HBc\_P-F; AB205152\_HBc\_P-RF-CB; AB222708\_HBc\_P-RF-AD; AB270535\_HBc\_P-RF-DC; AB674432\_HBc\_P-RF-DE; AY341335\_HBc\_P-RF-DE; DQ478886\_HBc\_P-RF-DC; DQ478898\_HBc\_P-RF-DC; EU871985\_HBc\_P-RF-CB; FJ562278\_HBc\_P-RF-DC; FJ562302\_HBc\_P-RF-CB; FJ904397\_HBc\_P-RF-DE; JF439995\_HBc\_P-RF-DE; JF439996\_HBc\_P-RF-DE; JF439998\_HBc\_P-RF-DE; JF440000\_HBc\_P-RF-DE; JF440001\_HBc\_P-RF-DE; JF440002\_HBc\_P-RF-DE; JF440003\_HBc\_P-RF-DE; JF440006\_HBc\_P-RF-DE; JF440008\_HBc\_P-RF-DE; JF440009\_HBc\_P-RF-DE; JF440010\_HBc\_P-RF-DE; JF440014\_HBc\_P-RF-DE; JF440015\_HBc\_P-RF-DE; JQ040142\_HBc\_P-RF-CB; JX504540\_HBc\_P-RF-CB; KM386676\_HBc\_P-RF-DE



**91 Protein sequences are covered at 89 %:**

AB014370\_HBc\_P-A; AB116087\_HBc\_P-A; AB116091\_HBc\_P-A; AB194950\_HBc\_P-A;  
AB194952\_HBc\_P-A; AF324107\_HBc\_P-A; AF324120\_HBc\_P-A; AF324126\_HBc\_P-A;  
AF537372\_HBc\_P-A; FJ692566\_HBc\_P-A; FJ692604\_HBc\_P-A; GQ477468\_HBc\_P-A;  
HM363612\_HBc\_P-A; HM363613\_HBc\_P-A; JF439725\_HBc\_P-A; JF439728\_HBc\_P-A;  
JF439740\_HBc\_P-A; JN182332\_HBc\_P-A; JQ707300\_HBc\_P-A; JQ707356\_HBc\_P-A;  
JQ707578\_HBc\_P-A; JQ707593\_HBc\_P-A; JQ707600\_HBc\_P-A; KF779272\_HBc\_P-A;  
AB713530\_HBc\_P-B; EU306703\_HBc\_P-B; FJ023627\_HBc\_P-B; FJ386681\_HBc\_P-B;  
KC774415\_HBc\_P-B; KJ803789\_HBc\_P-B; AB106895\_HBc\_P-C; AB195946\_HBc\_P-C;  
AB670279\_HBc\_P-C; DQ478901\_HBc\_P-C; EU939590\_HBc\_P-C; EU939591\_HBc\_P-C;  
EU939595\_HBc\_P-C; FJ787470\_HBc\_P-C; GQ358153\_HBc\_P-C; JX429918\_HBc\_P-C;  
JX504539\_HBc\_P-C; KC774284\_HBc\_P-C; KC774358\_HBc\_P-C; KJ803814\_HBc\_P-C;  
AB210820\_HBc\_P-D; AB674406\_HBc\_P-D; AF121239\_HBc\_P-D; DQ464170\_HBc\_P-D;  
EU594398\_HBc\_P-D; EU594404\_HBc\_P-D; EU726945\_HBc\_P-D; FJ349235\_HBc\_P-D;  
GU456640\_HBc\_P-D; JN257202\_HBc\_P-D; JN642153\_HBc\_P-D; JN642158\_HBc\_P-D;  
JQ707682\_HBc\_P-D; JQ707683\_HBc\_P-D; JQ707684\_HBc\_P-D; JQ707685\_HBc\_P-D;  
JQ707686\_HBc\_P-D; JQ707687\_HBc\_P-D; JQ707688\_HBc\_P-D; JQ707689\_HBc\_P-D;  
JQ707690\_HBc\_P-D; JQ707691\_HBc\_P-D; JQ707692\_HBc\_P-D; JQ707693\_HBc\_P-D;  
JQ707694\_HBc\_P-D; JQ707696\_HBc\_P-D; JQ707697\_HBc\_P-D; JQ707698\_HBc\_P-D;  
JQ707699\_HBc\_P-D; JQ707700\_HBc\_P-D; JQ707701\_HBc\_P-D; JQ707702\_HBc\_P-D;  
JQ707703\_HBc\_P-D; JQ707705\_HBc\_P-D; JQ707706\_HBc\_P-D; KC875292\_HBc\_P-D;  
KF779382\_HBc\_P-D; X85280\_HBc\_P-D; DQ464164\_HBc\_P-RF-DE; EU939668\_HBc\_P-RF-CB;  
FN594770\_HBc\_P-RF-DE; GQ205377\_HBc\_P-RF-DE; GQ205378\_HBc\_P-RF-DE; JF439999\_HBc\_P-RF-  
DE; JF440007\_HBc\_P-RF-DE; JN664929\_HBc\_P-RF-DE; KC774449\_HBc\_P-RF-DC

**129 Protein sequences are covered at 88 %:**

EF103278\_HBc\_P-A; FM199977\_HBc\_P-A; GQ184324\_HBc\_P-A; GQ477465\_HBc\_P-A;  
GQ477466\_HBc\_P-A; JF439737\_HBc\_P-A; JF439900\_HBc\_P-A; JQ687533\_HBc\_P-A;  
JQ707388\_HBc\_P-A; JQ707598\_HBc\_P-A; AB031268\_HBc\_P-B; AB033554\_HBc\_P-B;  
AB073822\_HBc\_P-B; AB073833\_HBc\_P-B; AB287316\_HBc\_P-B; AB302942\_HBc\_P-B;  
AB302944\_HBc\_P-B; AB368295\_HBc\_P-B; AB713532\_HBc\_P-B; AF157023\_HBc\_P-B;  
AF157025\_HBc\_P-B; AF335738\_HBc\_P-B; AF480353\_HBc\_P-B; DQ144556\_HBc\_P-B;  
DQ144595\_HBc\_P-B; DQ993683\_HBc\_P-B; EU882003\_HBc\_P-B; EU882004\_HBc\_P-B;  
EU919172\_HBc\_P-B; EU939637\_HBc\_P-B; EU939660\_HBc\_P-B; EU939676\_HBc\_P-B;  
FJ023629\_HBc\_P-B; FJ562240\_HBc\_P-B; FJ562321\_HBc\_P-B; FJ592177\_HBc\_P-B; FJ787477\_HBc\_P-B;  
GQ377525\_HBc\_P-B; GQ377606\_HBc\_P-B; KC774419\_HBc\_P-B; KF164967\_HBc\_P-B;  
KJ173418\_HBc\_P-B; KJ173419\_HBc\_P-B; KP036970\_HBc\_P-B; AB014382\_HBc\_P-C;  
AB014392\_HBc\_P-C; AB014394\_HBc\_P-C; AB014397\_HBc\_P-C; AB182589\_HBc\_P-C;  
AB202072\_HBc\_P-C; AB300372\_HBc\_P-C; AB367402\_HBc\_P-C; AB367405\_HBc\_P-C;  
AB367406\_HBc\_P-C; AB367425\_HBc\_P-C; AB670261\_HBc\_P-C; AB670275\_HBc\_P-C;



Innovative Peptide Solutions

**PepMix™ HBV (Capsid Protein) Ultra**

AB670276\_HBc\_P-C; AY206385\_HBc\_P-C; DQ089771\_HBc\_P-C; DQ089797\_HBc\_P-C;  
DQ478885\_HBc\_P-C; EU579443\_HBc\_P-C; EU589336\_HBc\_P-C; EU871980\_HBc\_P-C;  
EU871998\_HBc\_P-C; EU916216\_HBc\_P-C; EU939568\_HBc\_P-C; EU939579\_HBc\_P-C;  
EU939587\_HBc\_P-C; FJ023625\_HBc\_P-C; FJ386609\_HBc\_P-C; FJ386673\_HBc\_P-C; FJ562272\_HBc\_P-  
C; FJ562318\_HBc\_P-C; FJ562327\_HBc\_P-C; FJ562330\_HBc\_P-C; FJ715343\_HBc\_P-C;  
JQ040135\_HBc\_P-C; JQ801515\_HBc\_P-C; KC774354\_HBc\_P-C; KC774355\_HBc\_P-C;  
KC875271\_HBc\_P-C; KJ598658\_HBc\_P-C; KJ803780\_HBc\_P-C; KJ803810\_HBc\_P-C; AF043593\_HBc\_P-  
D; AF324110\_HBc\_P-D; AY161150\_HBc\_P-D; AY161151\_HBc\_P-D; AY161152\_HBc\_P-D;  
AY161153\_HBc\_P-D; AY161154\_HBc\_P-D; AY161155\_HBc\_P-D; AY161156\_HBc\_P-D;  
AY741794\_HBc\_P-D; AY741795\_HBc\_P-D; AY741796\_HBc\_P-D; DQ178017\_HBc\_P-D;  
DQ304548\_HBc\_P-D; DQ304549\_HBc\_P-D; DQ486025\_HBc\_P-D; EU726886\_HBc\_P-D;  
EU726926\_HBc\_P-D; EU726950\_HBc\_P-D; FJ904438\_HBc\_P-D; JF439695\_HBc\_P-D;  
JF754598\_HBc\_P-D; JN132131\_HBc\_P-D; JN257163\_HBc\_P-D; JQ287619\_HBc\_P-D;  
JQ707497\_HBc\_P-D; JQ707504\_HBc\_P-D; KC875298\_HBc\_P-D; KF471656\_HBc\_P-D;  
AM494703\_HBc\_P-E; FN545821\_HBc\_P-E; HM363594\_HBc\_P-E; HM363596\_HBc\_P-E;  
HM363604\_HBc\_P-E; AB214516\_HBc\_P-F; AF324143\_HBc\_P-F; DQ315780\_HBc\_P-RF-DE;  
EU939547\_HBc\_P-RF-CB; FJ904437\_HBc\_P-RF-DE; JF440013\_HBc\_P-RF-DE; JN040798\_HBc\_P-RF-DE;  
JN664943\_HBc\_P-RF-DE; JX026887\_HBc\_P-RF-CB

**140 Protein sequences are covered at 87 %:**

AB453986\_HBc\_P-A; AB453989\_HBc\_P-A; FJ692558\_HBc\_P-A; JF439830\_HBc\_P-A;  
JQ023661\_HBc\_P-A; JQ707299\_HBc\_P-A; JX154580\_HBc\_P-A; JX154581\_HBc\_P-A; JX154582\_HBc\_P-  
A; KF779249\_HBc\_P-A; KJ854685\_HBc\_P-A; AB023663\_HBc\_P-B; AB031266\_HBc\_P-B;  
AB073823\_HBc\_P-B; AB219426\_HBc\_P-B; AB555498\_HBc\_P-B; AB900112\_HBc\_P-B;  
AF121250\_HBc\_P-B; AF480348\_HBc\_P-B; AY517488\_HBc\_P-B; DQ144551\_HBc\_P-B;  
DQ144581\_HBc\_P-B; DQ144592\_HBc\_P-B; DQ144600\_HBc\_P-B; DQ463788\_HBc\_P-B;  
EU306699\_HBc\_P-B; FJ023617\_HBc\_P-B; FJ386680\_HBc\_P-B; FJ562224\_HBc\_P-B; FJ751769\_HBc\_P-  
B; GQ377644\_HBc\_P-B; GQ924660\_HBc\_P-B; KC774362\_HBc\_P-B; X97850\_HBc\_P-B;  
AB014369\_HBc\_P-C; AB111122\_HBc\_P-C; AB112408\_HBc\_P-C; AB195952\_HBc\_P-C;  
AB367421\_HBc\_P-C; AB670270\_HBc\_P-C; AB670300\_HBc\_P-C; AF411408\_HBc\_P-C;  
AF411411\_HBc\_P-C; AF411412\_HBc\_P-C; DQ089766\_HBc\_P-C; DQ315782\_HBc\_P-C;  
DQ980551\_HBc\_P-C; EU554536\_HBc\_P-C; EU796070\_HBc\_P-C; EU796072\_HBc\_P-C;  
EU939593\_HBc\_P-C; EU939603\_HBc\_P-C; EU939642\_HBc\_P-C; FJ023677\_HBc\_P-C;  
FJ386663\_HBc\_P-C; FJ562291\_HBc\_P-C; FJ715422\_HBc\_P-C; FJ787469\_HBc\_P-C; GQ475337\_HBc\_P-  
C; JF828906\_HBc\_P-C; JF828907\_HBc\_P-C; JF828908\_HBc\_P-C; JF828911\_HBc\_P-C;  
JF828912\_HBc\_P-C; JF828937\_HBc\_P-C; JN104434\_HBc\_P-C; JX504536\_HBc\_P-C; KC315399\_HBc\_P-  
C; KC875265\_HBc\_P-C; KJ410489\_HBc\_P-C; KJ410492\_HBc\_P-C; KJ598741\_HBc\_P-C;  
KJ598742\_HBc\_P-C; KJ598743\_HBc\_P-C; KJ598744\_HBc\_P-C; KJ598746\_HBc\_P-C; KJ598747\_HBc\_P-  
C; KJ598748\_HBc\_P-C; KJ598751\_HBc\_P-C; KJ598754\_HBc\_P-C; AB555501\_HBc\_P-D;  
AB674405\_HBc\_P-D; AB674420\_HBc\_P-D; AF419524\_HBc\_P-D; AY371908\_HBc\_P-D;



Innovative Peptide Solutions

**PepMix™ HBV (Capsid Protein) Ultra**

AY371911\_HBc\_P-D; AY603433\_HBc\_P-D; EU185779\_HBc\_P-D; EU594408\_HBc\_P-D;  
EU726860\_HBc\_P-D; EU726865\_HBc\_P-D; EU726875\_HBc\_P-D; EU726881\_HBc\_P-D;  
EU726910\_HBc\_P-D; EU726951\_HBc\_P-D; EU726965\_HBc\_P-D; GQ183448\_HBc\_P-D;  
GQ477457\_HBc\_P-D; GQ922001\_HBc\_P-D; GU456660\_HBc\_P-D; HQ700481\_HBc\_P-D;  
JF754629\_HBc\_P-D; JN040754\_HBc\_P-D; JN040784\_HBc\_P-D; JN040795\_HBc\_P-D;  
JN040802\_HBc\_P-D; JN642147\_HBc\_P-D; JN642166\_HBc\_P-D; JN664941\_HBc\_P-D;  
JN792906\_HBc\_P-D; JQ707480\_HBc\_P-D; JQ707506\_HBc\_P-D; JQ707509\_HBc\_P-D;  
JQ707704\_HBc\_P-D; KC875301\_HBc\_P-D; KC875304\_HBc\_P-D; KC875307\_HBc\_P-D;  
KC875322\_HBc\_P-D; KC875323\_HBc\_P-D; KF471641\_HBc\_P-D; GQ161757\_HBc\_P-E;  
GQ161778\_HBc\_P-E; GQ161783\_HBc\_P-E; GQ161796\_HBc\_P-E; GQ161810\_HBc\_P-E;  
GQ161824\_HBc\_P-E; HM363595\_HBc\_P-E; KF849728\_HBc\_P-E; AB166850\_HBc\_P-F;  
HM585194\_HBc\_P-F; JX899376\_HBc\_P-F; KJ843195\_HBc\_P-F; FJ023666\_HBc\_P-RF-GC;  
FJ349207\_HBc\_P-RF-DE; FJ361772\_HBc\_P-RF-GC; FJ562227\_HBc\_P-RF-CB; FJ562287\_HBc\_P-RF-CB;  
FJ904447\_HBc\_P-RF-DE; JF440004\_HBc\_P-RF-DE; JF440005\_HBc\_P-RF-DE

**140 Protein sequences are covered at 86 %:**

AY373429\_HBc\_P-A; GQ222208\_HBc\_P-A; GQ477463\_HBc\_P-A; GQ477488\_HBc\_P-A;  
GU827640\_HBc\_P-A; JF439738\_HBc\_P-A; JF439930\_HBc\_P-A; JF439934\_HBc\_P-A; JF439936\_HBc\_P-A;  
JF439937\_HBc\_P-A; JF439938\_HBc\_P-A; JF439939\_HBc\_P-A; JF439940\_HBc\_P-A;  
JF439942\_HBc\_P-A; JQ707582\_HBc\_P-A; AB014366\_HBc\_P-B; AB073824\_HBc\_P-B;  
AB302945\_HBc\_P-B; AF323467\_HBc\_P-B; AF324073\_HBc\_P-B; AF480349\_HBc\_P-B;  
AF480355\_HBc\_P-B; AF480357\_HBc\_P-B; AF480362\_HBc\_P-B; AF480363\_HBc\_P-B;  
DQ144576\_HBc\_P-B; EU522074\_HBc\_P-B; EU919171\_HBc\_P-B; EU939672\_HBc\_P-B;  
FJ751766\_HBc\_P-B; FJ899784\_HBc\_P-B; JX429910\_HBc\_P-B; KC774367\_HBc\_P-B; KC774412\_HBc\_P-B;  
KF165906\_HBc\_P-B; KJ173373\_HBc\_P-B; KJ803755\_HBc\_P-B; KJ803756\_HBc\_P-B;  
KJ803758\_HBc\_P-B; KJ803795\_HBc\_P-B; KM213034\_HBc\_P-B; AB111116\_HBc\_P-C;  
AB111117\_HBc\_P-C; AB111123\_HBc\_P-C; AB670249\_HBc\_P-C; AY206378\_HBc\_P-C;  
AY641563\_HBc\_P-C; DQ361534\_HBc\_P-C; DQ536411\_HBc\_P-C; DQ536413\_HBc\_P-C;  
EU439015\_HBc\_P-C; EU560438\_HBc\_P-C; EU939540\_HBc\_P-C; EU939544\_HBc\_P-C;  
EU939561\_HBc\_P-C; EU939607\_HBc\_P-C; EU939610\_HBc\_P-C; EU939613\_HBc\_P-C;  
EU939626\_HBc\_P-C; EU939658\_HBc\_P-C; FJ386589\_HBc\_P-C; FJ386672\_HBc\_P-C; FJ518810\_HBc\_P-C;  
FJ787488\_HBc\_P-C; FJ787490\_HBc\_P-C; GQ184326\_HBc\_P-C; GQ227694\_HBc\_P-C;  
GQ377526\_HBc\_P-C; JQ027332\_HBc\_P-C; JQ040168\_HBc\_P-C; JQ707707\_HBc\_P-C;  
JQ707709\_HBc\_P-C; JQ707710\_HBc\_P-C; JQ707711\_HBc\_P-C; JQ707712\_HBc\_P-C;  
JQ707713\_HBc\_P-C; JQ707715\_HBc\_P-C; JQ707716\_HBc\_P-C; JQ707717\_HBc\_P-C;  
JQ707718\_HBc\_P-C; JQ707719\_HBc\_P-C; JQ707720\_HBc\_P-C; JQ707721\_HBc\_P-C;  
JQ707722\_HBc\_P-C; JQ707723\_HBc\_P-C; JQ707724\_HBc\_P-C; JQ707725\_HBc\_P-C;  
JQ707726\_HBc\_P-C; JQ707727\_HBc\_P-C; JQ707728\_HBc\_P-C; JQ707729\_HBc\_P-C;  
JQ707730\_HBc\_P-C; JQ707731\_HBc\_P-C; JQ707732\_HBc\_P-C; JQ707733\_HBc\_P-C;  
JQ801499\_HBc\_P-C; JQ801520\_HBc\_P-C; KC774296\_HBc\_P-C; KF165568\_HBc\_P-C; KJ410514\_HBc\_P-C





Innovative Peptide Solutions

**PepMix™ HBV (Capsid Protein) Ultra**

C; KJ803762\_HBc\_P-C; AY090453\_HBc\_P-D; DQ315778\_HBc\_P-D; FJ349220\_HBc\_P-D;  
FJ904395\_HBc\_P-D; JN642140\_HBc\_P-D; JN792907\_HBc\_P-D; JQ707529\_HBc\_P-D;  
JQ707695\_HBc\_P-D; KC774445\_HBc\_P-D; KF779218\_HBc\_P-D; KF779224\_HBc\_P-D;  
KF798281\_HBc\_P-D; X85254\_HBc\_P-D; X85299\_HBc\_P-D; AB201290\_HBc\_P-E; AF350144\_HBc\_P-E;  
AF350145\_HBc\_P-E; AM494695\_HBc\_P-E; AY269055\_HBc\_P-E; EU239217\_HBc\_P-E;  
EU239222\_HBc\_P-E; GQ161775\_HBc\_P-E; HM363575\_HBc\_P-E; KF849726\_HBc\_P-E;  
HM622135\_HBc\_P-F; JN792916\_HBc\_P-F; AB048702\_HBc\_P-RF-DE; AB048703\_HBc\_P-RF-DE;  
EU717211\_HBc\_P-RF-CB; EU939589\_HBc\_P-RF-CB; FJ562229\_HBc\_P-RF-CB; FJ562267\_HBc\_P-RF-CB;  
GQ377590\_HBc\_P-RF-CB; HQ700500\_HBc\_P-RF-DE; HQ700539\_HBc\_P-RF-DE; HQ700540\_HBc\_P-RF-  
DE; JO2202\_HBc\_P-RF-DE; JN642127\_HBc\_P-RF-DE; JQ707714\_HBc\_P-RF-CB

**119 Protein sequences are covered at 85 %:**

AB116084\_HBc\_P-A; AB116089\_HBc\_P-A; AB362931\_HBc\_P-A; AB453983\_HBc\_P-A;  
AJ344115\_HBc\_P-A; AY233290\_HBc\_P-A; EU185786\_HBc\_P-A; FJ692576\_HBc\_P-A; FJ692607\_HBc\_P-  
A; FJ692611\_HBc\_P-A; FN545830\_HBc\_P-A; GQ477486\_HBc\_P-A; JQ707602\_HBc\_P-A;  
AB073850\_HBc\_P-B; AF480344\_HBc\_P-B; AF480356\_HBc\_P-B; AJ627225\_HBc\_P-B;  
AY167098\_HBc\_P-B; AY269108\_HBc\_P-B; DQ993686\_HBc\_P-B; DQ995803\_HBc\_P-B;  
EU939670\_HBc\_P-B; FJ023610\_HBc\_P-B; FJ386600\_HBc\_P-B; FJ386660\_HBc\_P-B; FJ562231\_HBc\_P-  
B; GQ358146\_HBc\_P-B; HM011492\_HBc\_P-B; JF436921\_HBc\_P-B; JQ027334\_HBc\_P-B;  
JX504543\_HBc\_P-B; KJ803783\_HBc\_P-B; X98077\_HBc\_P-B; AB367433\_HBc\_P-C; AB697510\_HBc\_P-C;  
AF458665\_HBc\_P-C; AY220700\_HBc\_P-C; AY306136\_HBc\_P-C; DQ361526\_HBc\_P-C;  
DQ478900\_HBc\_P-C; EU554541\_HBc\_P-C; EU919165\_HBc\_P-C; EU939576\_HBc\_P-C;  
EU939586\_HBc\_P-C; EU939644\_HBc\_P-C; FJ023655\_HBc\_P-C; FJ386602\_HBc\_P-C; FJ715351\_HBc\_P-  
C; FJ715368\_HBc\_P-C; FJ715418\_HBc\_P-C; FJ787482\_HBc\_P-C; FJ787483\_HBc\_P-C;  
GQ227692\_HBc\_P-C; GQ377575\_HBc\_P-C; JF828905\_HBc\_P-C; JQ027333\_HBc\_P-C;  
JQ707768\_HBc\_P-C; JQ707769\_HBc\_P-C; JQ707770\_HBc\_P-C; JQ707771\_HBc\_P-C;  
JQ707772\_HBc\_P-C; JQ707773\_HBc\_P-C; JQ707774\_HBc\_P-C; JQ801472\_HBc\_P-C; JX026888\_HBc\_P-  
C; KC774253\_HBc\_P-C; KJ598680\_HBc\_P-C; KJ598687\_HBc\_P-C; AB109479\_HBc\_P-D;  
AB674417\_HBc\_P-D; AB674419\_HBc\_P-D; AB674429\_HBc\_P-D; AY236162\_HBc\_P-D;  
AY721611\_HBc\_P-D; EU726911\_HBc\_P-D; EU726925\_HBc\_P-D; EU726933\_HBc\_P-D;  
EU726973\_HBc\_P-D; EU787438\_HBc\_P-D; FJ349219\_HBc\_P-D; FJ904446\_HBc\_P-D;  
GU456681\_HBc\_P-D; JF754603\_HBc\_P-D; JF754606\_HBc\_P-D; JF754607\_HBc\_P-D; JF754614\_HBc\_P-  
D; JF754635\_HBc\_P-D; JN040772\_HBc\_P-D; JN040810\_HBc\_P-D; JN040814\_HBc\_P-D;  
JN040820\_HBc\_P-D; JN642132\_HBc\_P-D; JN642151\_HBc\_P-D; JN642163\_HBc\_P-D;  
JN688683\_HBc\_P-D; JN792904\_HBc\_P-D; JQ707491\_HBc\_P-D; KF170739\_HBc\_P-D;  
KF192830\_HBc\_P-D; KF192831\_HBc\_P-D; KF192832\_HBc\_P-D; KF192834\_HBc\_P-D; M32138\_HBc\_P-  
D; X85260\_HBc\_P-D; X85269\_HBc\_P-D; GQ161811\_HBc\_P-E; JN792917\_HBc\_P-F; AB367393\_HBc\_P-  
RF-CB; EU660227\_HBc\_P-RF-BC; EU939551\_HBc\_P-RF-CB; FJ349212\_HBc\_P-RF-DE; FJ386593\_HBc\_P-  
RF-CB; FJ562305\_HBc\_P-RF-CB; FJ904401\_HBc\_P-RF-DE; FJ904404\_HBc\_P-RF-DE; HM146131\_HBc\_P-  
RF-AD; HQ700534\_HBc\_P-RF-DE; JN257204\_HBc\_P-RF-DE; JN688717\_HBc\_P-RF-DE



Innovative Peptide Solutions

PepMix™ HBV (Capsid Protein) Ultra

**90 Protein sequences are covered at 84 %:**

AB222707\_HBc\_P-A; EU414050\_HBc\_P-A; JF439724\_HBc\_P-A; JF439729\_HBc\_P-A; JF439744\_HBc\_P-A; JF439751\_HBc\_P-A; JX154579\_HBc\_P-A; AB031264\_HBc\_P-B; AB031267\_HBc\_P-B; AB073836\_HBc\_P-B; AB073837\_HBc\_P-B; AB073844\_HBc\_P-B; AB246343\_HBc\_P-B; AB287326\_HBc\_P-B; AF480340\_HBc\_P-B; AF480343\_HBc\_P-B; AF480354\_HBc\_P-B; AF480359\_HBc\_P-B; AP011093\_HBc\_P-B; AY217361\_HBc\_P-B; AY269109\_HBc\_P-B; AY269110\_HBc\_P-B; DQ144545\_HBc\_P-B; DQ463792\_HBc\_P-B; EU919173\_HBc\_P-B; EU939663\_HBc\_P-B; EU939669\_HBc\_P-B; FJ023631\_HBc\_P-B; FJ032357\_HBc\_P-B; FJ899779\_HBc\_P-B; GU827630\_HBc\_P-B; JX429901\_HBc\_P-B; AB014387\_HBc\_P-C; AB105174\_HBc\_P-C; AB111118\_HBc\_P-C; AB300360\_HBc\_P-C; AB367408\_HBc\_P-C; AB670304\_HBc\_P-C; AB670308\_HBc\_P-C; DQ089791\_HBc\_P-C; EU522071\_HBc\_P-C; EU560439\_HBc\_P-C; EU570072\_HBc\_P-C; EU872001\_HBc\_P-C; EU872002\_HBc\_P-C; EU872003\_HBc\_P-C; EU939546\_HBc\_P-C; EU939563\_HBc\_P-C; EU939570\_HBc\_P-C; EU939643\_HBc\_P-C; FJ386579\_HBc\_P-C; FJ386594\_HBc\_P-C; FJ386644\_HBc\_P-C; FJ386679\_HBc\_P-C; FJ562235\_HBc\_P-C; FJ562241\_HBc\_P-C; FJ787471\_HBc\_P-C; FJ848339\_HBc\_P-C; FJ899761\_HBc\_P-C; FJ899764\_HBc\_P-C; FJ899765\_HBc\_P-C; FJ899769\_HBc\_P-C; GQ227696\_HBc\_P-C; GQ377543\_HBc\_P-C; GQ475318\_HBc\_P-C; JF828910\_HBc\_P-C; KJ598637\_HBc\_P-C; KJ598638\_HBc\_P-C; AB119251\_HBc\_P-D; AJ627224\_HBc\_P-D; EU726885\_HBc\_P-D; GU456646\_HBc\_P-D; GU456655\_HBc\_P-D; HQ700472\_HBc\_P-D; JF439704\_HBc\_P-D; JF439705\_HBc\_P-D; JN040775\_HBc\_P-D; JN040821\_HBc\_P-D; JN257148\_HBc\_P-D; AB219533\_HBc\_P-E; AF350208\_HBc\_P-E; AM494796\_HBc\_P-E; HM363597\_HBc\_P-E; HM363606\_HBc\_P-E; KC494399\_HBc\_P-F; AB064315\_HBc\_P-H; EU939630\_HBc\_P-RF-CB; JF440012\_HBc\_P-RF-DE; KJ410497\_HBc\_P-RF-BC; KJ803785\_HBc\_P-RF-CB

**54 Protein sequences are covered at 83 %:**

EU414052\_HBc\_P-A; EU414133\_HBc\_P-A; FM199974\_HBc\_P-A; FN545833\_HBc\_P-A; GQ331046\_HBc\_P-A; GQ477470\_HBc\_P-A; GQ477482\_HBc\_P-A; JF439748\_HBc\_P-A; AB073852\_HBc\_P-B; AF480338\_HBc\_P-B; AY167102\_HBc\_P-B; AY206375\_HBc\_P-B; DQ144606\_HBc\_P-B; EU660230\_HBc\_P-B; EU660231\_HBc\_P-B; EU660232\_HBc\_P-B; EU660233\_HBc\_P-B; EU939667\_HBc\_P-B; EU939679\_HBc\_P-B; HM011474\_HBc\_P-B; KJ803820\_HBc\_P-B; EU939562\_HBc\_P-C; FJ562220\_HBc\_P-C; FJ562270\_HBc\_P-C; FJ787452\_HBc\_P-C; GQ377557\_HBc\_P-C; GQ924612\_HBc\_P-C; HM011468\_HBc\_P-C; JQ040129\_HBc\_P-C; JQ801495\_HBc\_P-C; JX026877\_HBc\_P-C; KJ410491\_HBc\_P-C; KJ410494\_HBc\_P-C; KJ410499\_HBc\_P-C; KJ410521\_HBc\_P-C; KJ803809\_HBc\_P-C; AB119252\_HBc\_P-D; AB119256\_HBc\_P-D; AF419532\_HBc\_P-D; AY371904\_HBc\_P-D; AY371906\_HBc\_P-D; DQ336683\_HBc\_P-D; EU726855\_HBc\_P-D; FJ349214\_HBc\_P-D; GU456665\_HBc\_P-D; JN040755\_HBc\_P-D; JN664924\_HBc\_P-D; KF679990\_HBc\_P-D; AF350101\_HBc\_P-E; GQ491112\_HBc\_P-E; JF439797\_HBc\_P-G; AB049609\_HBc\_P-RF-CB; FR714496\_HBc\_P-RF-CB; KF471643\_HBc\_P-RF-DE



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**91 Protein sequences are covered at 82 %:**

AB116076\_HBc\_P-A; AB246317\_HBc\_P-A; AF324122\_HBc\_P-A; AJ627228\_HBc\_P-A;  
FJ692587\_HBc\_P-A; FJ904434\_HBc\_P-A; GQ477475\_HBc\_P-A; GQ477502\_HBc\_P-A;  
AB073851\_HBc\_P-B; AB219427\_HBc\_P-B; AB713528\_HBc\_P-B; AB900095\_HBc\_P-B;  
AF480337\_HBc\_P-B; AY220697\_HBc\_P-B; DQ144579\_HBc\_P-B; DQ463791\_HBc\_P-B;  
DQ995802\_HBc\_P-B; EU882002\_HBc\_P-B; FJ787475\_HBc\_P-B; GQ358147\_HBc\_P-B;  
GQ924628\_HBc\_P-B; GU815572\_HBc\_P-B; JX504531\_HBc\_P-B; JX504533\_HBc\_P-B;  
KJ803797\_HBc\_P-B; AB014364\_HBc\_P-C; AB112063\_HBc\_P-C; AB115417\_HBc\_P-C;  
AB300361\_HBc\_P-C; AB300373\_HBc\_P-C; AB367802\_HBc\_P-C; AB485809\_HBc\_P-C;  
AB670258\_HBc\_P-C; AB670291\_HBc\_P-C; EF137803\_HBc\_P-C; EF494379\_HBc\_P-C;  
EU717212\_HBc\_P-C; EU916227\_HBc\_P-C; EU919169\_HBc\_P-C; FJ023639\_HBc\_P-C;  
FJ386620\_HBc\_P-C; FJ562221\_HBc\_P-C; FJ562249\_HBc\_P-C; FJ562279\_HBc\_P-C; FJ562319\_HBc\_P-C;  
FJ715424\_HBc\_P-C; FJ899774\_HBc\_P-C; GQ227697\_HBc\_P-C; GQ924650\_HBc\_P-C;  
JQ801481\_HBc\_P-C; JQ801483\_HBc\_P-C; JX504541\_HBc\_P-C; KC774269\_HBc\_P-C;  
KC774288\_HBc\_P-C; KC774321\_HBc\_P-C; KC774361\_HBc\_P-C; KJ803754\_HBc\_P-C; KJ803777\_HBc\_P-C;  
AB104710\_HBc\_P-D; AB270541\_HBc\_P-D; AF419537\_HBc\_P-D; AJ627222\_HBc\_P-D;  
DQ178011\_HBc\_P-D; DQ336692\_HBc\_P-D; EU726872\_HBc\_P-D; FJ349213\_HBc\_P-D;  
FJ904426\_HBc\_P-D; GU456636\_HBc\_P-D; GU456641\_HBc\_P-D; JF754602\_HBc\_P-D;  
JF754621\_HBc\_P-D; AM494800\_HBc\_P-E; FN594753\_HBc\_P-E; GQ161768\_HBc\_P-E;  
HM363566\_HBc\_P-E; HM363587\_HBc\_P-E; AB300369\_HBc\_P-RF-CB; AF461361\_HBc\_P-RF-CB;  
EU589339\_HBc\_P-RF-CB; EU939581\_HBc\_P-RF-CB; FJ562336\_HBc\_P-RF-CB; GQ377556\_HBc\_P-RF-CB;  
JF754616\_HBc\_P-RF-DE; JN642137\_HBc\_P-RF-DE; JN642139\_HBc\_P-RF-DE; KC774453\_HBc\_P-RF-DC;  
KC774481\_HBc\_P-RF-DC; KF192833\_HBc\_P-RF-DE; KF192836\_HBc\_P-RF-DE; KF192838\_HBc\_P-RF-DE;  
KM359442\_HBc\_P-RF-DE

**67 Protein sequences are covered at 81 %:**

FN545828\_HBc\_P-A; GQ477491\_HBc\_P-A; GQ477499\_HBc\_P-A; GQ477504\_HBc\_P-A;  
JF439931\_HBc\_P-A; AB100695\_HBc\_P-B; AB241117\_HBc\_P-B; AF480347\_HBc\_P-B;  
AF480358\_HBc\_P-B; AY269102\_HBc\_P-B; DQ463789\_HBc\_P-B; EF494381\_HBc\_P-B;  
EU939559\_HBc\_P-B; FJ032358\_HBc\_P-B; FJ562289\_HBc\_P-B; JX504532\_HBc\_P-B; KJ843165\_HBc\_P-B;  
AB112065\_HBc\_P-C; AB367426\_HBc\_P-C; AB367432\_HBc\_P-C; AB367801\_HBc\_P-C;  
AB367804\_HBc\_P-C; DQ975272\_HBc\_P-C; EU916234\_HBc\_P-C; EU939556\_HBc\_P-C;  
EU939625\_HBc\_P-C; FJ386632\_HBc\_P-C; FJ562251\_HBc\_P-C; FJ562264\_HBc\_P-C; FJ562301\_HBc\_P-C;  
FJ715390\_HBc\_P-C; FJ899771\_HBc\_P-C; GQ475356\_HBc\_P-C; GQ855543\_HBc\_P-C;  
GQ924615\_HBc\_P-C; JQ707708\_HBc\_P-C; JX504535\_HBc\_P-C; KJ803812\_HBc\_P-C;  
AB119254\_HBc\_P-D; AB119255\_HBc\_P-D; AF419523\_HBc\_P-D; AY090452\_HBc\_P-D;  
GQ167301\_HBc\_P-D; GQ167302\_HBc\_P-D; GU456652\_HBc\_P-D; GU456656\_HBc\_P-D;  
GU456659\_HBc\_P-D; JN040766\_HBc\_P-D; JN040770\_HBc\_P-D; JN040796\_HBc\_P-D;  
JN642134\_HBc\_P-D; JN642142\_HBc\_P-D; JN642148\_HBc\_P-D; JN664922\_HBc\_P-D;  
JN792905\_HBc\_P-D; JQ687531\_HBc\_P-D; KF018177\_HBc\_P-D; KF018195\_HBc\_P-D; X85264\_HBc\_P-



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D; AF350105\_HBc\_P-E; FN594765\_HBc\_P-E; HM363576\_HBc\_P-E; HM363578\_HBc\_P-E;  
HM363609\_HBc\_P-E; KF849724\_HBc\_P-E; JF440011\_HBc\_P-RF-DE; KJ470891\_HBc\_P-RF-DE

**101 Protein sequences are covered at 80 %:**

FJ692573\_HBc\_P-A; FN545829\_HBc\_P-A; JF439911\_HBc\_P-A; JF439912\_HBc\_P-A; JF439913\_HBc\_P-A;  
JF439914\_HBc\_P-A; JF439916\_HBc\_P-A; JF439917\_HBc\_P-A; JF439918\_HBc\_P-A;  
JF439919\_HBc\_P-A; JF439920\_HBc\_P-A; JF439922\_HBc\_P-A; JF439923\_HBc\_P-A; JF439924\_HBc\_P-A;  
JF439925\_HBc\_P-A; JF439927\_HBc\_P-A; JF439928\_HBc\_P-A; JF439941\_HBc\_P-A;  
AB023667\_HBc\_P-B; AF480352\_HBc\_P-B; AF480360\_HBc\_P-B; AY220703\_HBc\_P-B;  
AY220704\_HBc\_P-B; DQ144559\_HBc\_P-B; DQ144589\_HBc\_P-B; EU939639\_HBc\_P-B;  
FJ386669\_HBc\_P-B; GQ358145\_HBc\_P-B; GQ924617\_HBc\_P-B; KJ803781\_HBc\_P-B;  
KJ803821\_HBc\_P-B; KM213032\_HBc\_P-B; AB014372\_HBc\_P-C; AB113875\_HBc\_P-C;  
AB113876\_HBc\_P-C; AB300368\_HBc\_P-C; AB367430\_HBc\_P-C; AB670256\_HBc\_P-C;  
AB670301\_HBc\_P-C; AB900115\_HBc\_P-C; DQ089787\_HBc\_P-C; EU717217\_HBc\_P-C;  
EU916218\_HBc\_P-C; EU939592\_HBc\_P-C; FJ386596\_HBc\_P-C; FJ386640\_HBc\_P-C; FJ386677\_HBc\_P-C;  
FJ386687\_HBc\_P-C; FJ787456\_HBc\_P-C; GQ377586\_HBc\_P-C; GQ872211\_HBc\_P-C;  
KC774225\_HBc\_P-C; KJ410510\_HBc\_P-C; AB188242\_HBc\_P-D; AB270548\_HBc\_P-D;  
AB674418\_HBc\_P-D; AF151735\_HBc\_P-D; AF419512\_HBc\_P-D; EU726848\_HBc\_P-D;  
EU726857\_HBc\_P-D; EU726952\_HBc\_P-D; FJ349216\_HBc\_P-D; FJ904402\_HBc\_P-D;  
FJ904418\_HBc\_P-D; GU456654\_HBc\_P-D; GU456671\_HBc\_P-D; HQ700444\_HBc\_P-D;  
HQ700470\_HBc\_P-D; JN040769\_HBc\_P-D; JN040815\_HBc\_P-D; JN040816\_HBc\_P-D;  
JN642145\_HBc\_P-D; JN642149\_HBc\_P-D; JN642150\_HBc\_P-D; JN688722\_HBc\_P-D;  
KF471646\_HBc\_P-D; KF471649\_HBc\_P-D; KJ470885\_HBc\_P-D; KJ470893\_HBc\_P-D; X85263\_HBc\_P-D;  
X85273\_HBc\_P-D; X85301\_HBc\_P-D; X85303\_HBc\_P-D; X85304\_HBc\_P-D; AB194948\_HBc\_P-E;  
AB274984\_HBc\_P-E; AM494691\_HBc\_P-E; AM494786\_HBc\_P-E; GQ161814\_HBc\_P-E;  
FJ589066\_HBc\_P-F; AB033558\_HBc\_P-RF-DE; EU787435\_HBc\_P-RF-DC; EU882006\_HBc\_P-RF-CB;  
FJ904407\_HBc\_P-RF-DE; GQ377604\_HBc\_P-RF-CB; KF192837\_HBc\_P-RF-DE; KF192839\_HBc\_P-RF-DE;  
KF192840\_HBc\_P-RF-DE; KF192841\_HBc\_P-RF-DE; KJ803782\_HBc\_P-RF-CB; Y18856\_HBc\_P-RF-CB

**62 Protein sequences are covered at 79 %:**

FJ692595\_HBc\_P-A; AB073839\_HBc\_P-B; AB073856\_HBc\_P-B; AB212626\_HBc\_P-B;  
AB300370\_HBc\_P-B; AF461360\_HBc\_P-B; AF480346\_HBc\_P-B; AJ298864\_HBc\_P-B;  
DQ993687\_HBc\_P-B; FJ562257\_HBc\_P-B; FJ562259\_HBc\_P-B; KJ803752\_HBc\_P-B; KJ803786\_HBc\_P-B;  
AB014371\_HBc\_P-C; AB074047\_HBc\_P-C; AB111946\_HBc\_P-C; AB367401\_HBc\_P-C;  
AB367429\_HBc\_P-C; AB485810\_HBc\_P-C; AB670278\_HBc\_P-C; D23681\_HBc\_P-C; D23684\_HBc\_P-C;  
EU939599\_HBc\_P-C; EU939653\_HBc\_P-C; FJ032338\_HBc\_P-C; FJ562230\_HBc\_P-C; FJ562273\_HBc\_P-C;  
FJ787487\_HBc\_P-C; KJ598679\_HBc\_P-C; KJ598686\_HBc\_P-C; KJ803826\_HBc\_P-C;  
AB119253\_HBc\_P-D; AB555497\_HBc\_P-D; AF419538\_HBc\_P-D; DQ178012\_HBc\_P-D;



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## PepMix™ HBV (Capsid Protein) Ultra

DQ486023\_HBc\_P-D; EU726850\_HBc\_P-D; EU726892\_HBc\_P-D; EU726899\_HBc\_P-D;  
GU456637\_HBc\_P-D; GU456676\_HBc\_P-D; JF754631\_HBc\_P-D; JN040781\_HBc\_P-D;  
JN040797\_HBc\_P-D; JN040800\_HBc\_P-D; JN040801\_HBc\_P-D; JN257160\_HBc\_P-D;  
JN257161\_HBc\_P-D; JN642128\_HBc\_P-D; JN642154\_HBc\_P-D; JN642159\_HBc\_P-D;  
KC875328\_HBc\_P-D; AB205188\_HBc\_P-E; AM494792\_HBc\_P-E; AM494797\_HBc\_P-E;  
GQ161797\_HBc\_P-E; HM363600\_HBc\_P-E; HM363603\_HBc\_P-E; JN792918\_HBc\_P-F;  
AB674436\_HBc\_P-RF-DE; EU833891\_HBc\_P-RF-GC; FJ882611\_HBc\_P-RF-GC

### 66 Protein sequences are covered at 78 %:

FN545838\_HBc\_P-A; GQ477462\_HBc\_P-A; GQ477493\_HBc\_P-A; GQ477497\_HBc\_P-A;  
GQ477501\_HBc\_P-A; JF439929\_HBc\_P-A; JF439933\_HBc\_P-A; JQ707368\_HBc\_P-A;  
AB287325\_HBc\_P-B; AB900104\_HBc\_P-B; AY167100\_HBc\_P-B; DQ463797\_HBc\_P-B;  
DQ463802\_HBc\_P-B; EU919175\_HBc\_P-B; EU919176\_HBc\_P-B; EU939675\_HBc\_P-B;  
FJ386615\_HBc\_P-B; GQ924656\_HBc\_P-B; JN792895\_HBc\_P-B; KJ410500\_HBc\_P-B;  
AY206376\_HBc\_P-C; AY206379\_HBc\_P-C; EU939542\_HBc\_P-C; EU939617\_HBc\_P-C;  
FJ386616\_HBc\_P-C; FJ562326\_HBc\_P-C; FJ787485\_HBc\_P-C; FJ787489\_HBc\_P-C; FJ899767\_HBc\_P-C;  
GQ377518\_HBc\_P-C; GQ377608\_HBc\_P-C; GQ924658\_HBc\_P-C; HM011481\_HBc\_P-C;  
KJ803770\_HBc\_P-C; AB048701\_HBc\_P-D; AB270540\_HBc\_P-D; AB674410\_HBc\_P-D;  
AB674413\_HBc\_P-D; AY371910\_HBc\_P-D; AY371915\_HBc\_P-D; DQ464181\_HBc\_P-D;  
EU726858\_HBc\_P-D; EU726879\_HBc\_P-D; EU726963\_HBc\_P-D; FJ904429\_HBc\_P-D;  
GU456645\_HBc\_P-D; GU456677\_HBc\_P-D; HQ236016\_HBc\_P-D; JF754630\_HBc\_P-D;  
JN040765\_HBc\_P-D; JN688710\_HBc\_P-D; JQ687530\_HBc\_P-D; KF018181\_HBc\_P-D;  
KF471659\_HBc\_P-D; AB274982\_HBc\_P-E; GQ161823\_HBc\_P-E; GQ161831\_HBc\_P-E;  
GQ161834\_HBc\_P-E; HM363565\_HBc\_P-E; AB210819\_HBc\_P-RF-DE; AB367419\_HBc\_P-RF-CB;  
AY057948\_HBc\_P-RF-DC; EU939577\_HBc\_P-RF-CB; EU939621\_HBc\_P-RF-CB; JF440017\_HBc\_P-RF-  
DA; KJ803791\_HBc\_P-RF-CB

### 20 Protein sequences are covered at 77 %:

JF439932\_HBc\_P-A; AB362933\_HBc\_P-B; DQ144587\_HBc\_P-B; DQ144596\_HBc\_P-B;  
EU522073\_HBc\_P-B; KJ410502\_HBc\_P-B; KJ803808\_HBc\_P-B; EU871976\_HBc\_P-C;  
JQ801491\_HBc\_P-C; KJ803779\_HBc\_P-C; DQ336674\_HBc\_P-D; EU726871\_HBc\_P-D;  
EU726941\_HBc\_P-D; GU456678\_HBc\_P-D; HQ700468\_HBc\_P-D; HQ833469\_HBc\_P-D;  
JF754608\_HBc\_P-D; X85274\_HBc\_P-E; DQ464165\_HBc\_P-RF-DE; DQ464166\_HBc\_P-RF-DE

### 57 Protein sequences are covered at 76 %:

AF090838\_HBc\_P-A; AY161143\_HBc\_P-A; AY161144\_HBc\_P-A; FJ692586\_HBc\_P-A;  
FJ692602\_HBc\_P-A; FN545834\_HBc\_P-A; AF157022\_HBc\_P-B; AF324088\_HBc\_P-B;  
AY269128\_HBc\_P-B; D23678\_HBc\_P-B; EU522072\_HBc\_P-B; EU564822\_HBc\_P-B; EU564823\_HBc\_P-



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B; EU564824\_HBc\_P-B; FJ386608\_HBc\_P-B; JQ801474\_HBc\_P-B; JQ801506\_HBc\_P-B;  
KJ803768\_HBc\_P-B; KJ803819\_HBc\_P-B; AB367420\_HBc\_P-C; AF323463\_HBc\_P-C;  
DQ980549\_HBc\_P-C; EU916233\_HBc\_P-C; EU939596\_HBc\_P-C; FJ562248\_HBc\_P-C;  
FJ562250\_HBc\_P-C; FJ15392\_HBc\_P-C; FJ899768\_HBc\_P-C; FJ899770\_HBc\_P-C; HM750135\_HBc\_P-  
C; JQ801500\_HBc\_P-C; KC774319\_HBc\_P-C; KJ410511\_HBc\_P-C; KJ803760\_HBc\_P-C;  
AB674428\_HBc\_P-D; AY371909\_HBc\_P-D; EU726891\_HBc\_P-D; FJ349211\_HBc\_P-D;  
GU456644\_HBc\_P-D; GU456650\_HBc\_P-D; GU456651\_HBc\_P-D; GU456672\_HBc\_P-D;  
JF754590\_HBc\_P-D; JN040773\_HBc\_P-D; JN040819\_HBc\_P-D; JN040829\_HBc\_P-D;  
JN642157\_HBc\_P-D; KF018182\_HBc\_P-D; KF018185\_HBc\_P-D; KF584078\_HBc\_P-D;  
KJ470894\_HBc\_P-D; AM494791\_HBc\_P-E; AB453985\_HBc\_P-RF-AC; DQ464167\_HBc\_P-RF-DE;  
HQ700493\_HBc\_P-RF-DE; KF192835\_HBc\_P-RF-DE; KJ470892\_HBc\_P-RF-DE

**46 Protein sequences are covered at 75 %:**

AB453982\_HBc\_P-A; FJ349296\_HBc\_P-A; GQ477472\_HBc\_P-A; GQ477480\_HBc\_P-A;  
AB365445\_HBc\_P-B; EU564825\_HBc\_P-B; GQ924625\_HBc\_P-B; GQ924648\_HBc\_P-B;  
HM011470\_HBc\_P-B; JQ801516\_HBc\_P-B; JX026886\_HBc\_P-B; DQ089788\_HBc\_P-C;  
EU547562\_HBc\_P-C; EU872000\_HBc\_P-C; EU872004\_HBc\_P-C; KF779327\_HBc\_P-C;  
DQ336675\_HBc\_P-D; DQ336676\_HBc\_P-D; DQ336677\_HBc\_P-D; DQ336678\_HBc\_P-D;  
DQ336679\_HBc\_P-D; DQ336685\_HBc\_P-D; DQ336687\_HBc\_P-D; DQ464174\_HBc\_P-D;  
DQ464176\_HBc\_P-D; DQ464177\_HBc\_P-D; DQ464178\_HBc\_P-D; EU726859\_HBc\_P-D;  
EU726868\_HBc\_P-D; EU726960\_HBc\_P-D; EU939681\_HBc\_P-D; GQ477452\_HBc\_P-D;  
GU456666\_HBc\_P-D; JN040779\_HBc\_P-D; JN040780\_HBc\_P-D; JN040817\_HBc\_P-D;  
JN642167\_HBc\_P-D; KF471654\_HBc\_P-D; GQ161807\_HBc\_P-E; HM363608\_HBc\_P-E;  
FJ023665\_HBc\_P-RF-GC; FJ882613\_HBc\_P-RF-GC; FJ882618\_HBc\_P-RF-GC; GQ161788\_HBc\_P-RF-AE;  
GU385774\_HBc\_P-RF-CB; KM213033\_HBc\_P-RF-CB

**69 Protein sequences are covered at 74 %:**

JF439915\_HBc\_P-A; JF439926\_HBc\_P-A; AB073854\_HBc\_P-B; AB300371\_HBc\_P-B;  
AB900106\_HBc\_P-B; AF480351\_HBc\_P-B; AY167093\_HBc\_P-B; DQ463790\_HBc\_P-B;  
DQ463794\_HBc\_P-B; DQ463796\_HBc\_P-B; DQ904357\_HBc\_P-B; EF473973\_HBc\_P-B;  
EU939671\_HBc\_P-B; FJ562312\_HBc\_P-B; GQ924646\_HBc\_P-B; JN792900\_HBc\_P-B;  
AB042285\_HBc\_P-C; AB670262\_HBc\_P-C; EU717215\_HBc\_P-C; EU939558\_HBc\_P-C;  
EU939605\_HBc\_P-C; FJ023652\_HBc\_P-C; FJ15391\_HBc\_P-C; KC836842\_HBc\_P-C; KJ598663\_HBc\_P-  
C; KJ598664\_HBc\_P-C; KJ598666\_HBc\_P-C; KJ598668\_HBc\_P-C; KJ598669\_HBc\_P-C;  
KJ598670\_HBc\_P-C; KJ598673\_HBc\_P-C; KJ598674\_HBc\_P-C; KJ598676\_HBc\_P-C; KJ598677\_HBc\_P-  
C; KJ598678\_HBc\_P-C; KJ803823\_HBc\_P-C; AB674430\_HBc\_P-D; AF419539\_HBc\_P-D;  
AJ627215\_HBc\_P-D; AJ627216\_HBc\_P-D; AJ627218\_HBc\_P-D; AY371917\_HBc\_P-D;  
DQ336690\_HBc\_P-D; EU726880\_HBc\_P-D; EU726938\_HBc\_P-D; EU726944\_HBc\_P-D;



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EU726961\_HBc\_P-D; EU726970\_HBc\_P-D; GQ184322\_HBc\_P-D; GQ477458\_HBc\_P-D;  
GU456684\_HBc\_P-D; JF754600\_HBc\_P-D; JN040753\_HBc\_P-D; JN040776\_HBc\_P-D;  
JN040783\_HBc\_P-D; JN040818\_HBc\_P-D; JN688712\_HBc\_P-D; JN792911\_HBc\_P-D;  
JN792912\_HBc\_P-D; KC875342\_HBc\_P-D; KF471642\_HBc\_P-D; X85261\_HBc\_P-D; HM363610\_HBc\_P-  
E; AY161140\_HBc\_P-RF-AD; EU916228\_HBc\_P-RF-CB; FJ386586\_HBc\_P-RF-CB; FJ386635\_HBc\_P-RF-  
CB; KJ470897\_HBc\_P-RF-DE; KJ803822\_HBc\_P-RF-CB

### 40 Protein sequences are covered at 73 %:

GQ477500\_HBc\_P-A; AB073857\_HBc\_P-B; EU158263\_HBc\_P-B; EU939677\_HBc\_P-B;  
FJ899785\_HBc\_P-B; FJ899787\_HBc\_P-B; GQ924639\_HBc\_P-B; HM011480\_HBc\_P-B;  
AB014386\_HBc\_P-C; AB113878\_HBc\_P-C; AB195930\_HBc\_P-C; AB195931\_HBc\_P-C;  
AB195932\_HBc\_P-C; AB900099\_HBc\_P-C; D00630\_HBc\_P-C; DQ089768\_HBc\_P-C; FJ386617\_HBc\_P-  
C; AB674403\_HBc\_P-D; AB674424\_HBc\_P-D; AB674431\_HBc\_P-D; AF324111\_HBc\_P-D;  
AF419528\_HBc\_P-D; AY741798\_HBc\_P-D; DQ336689\_HBc\_P-D; EU726856\_HBc\_P-D;  
EU726969\_HBc\_P-D; FJ349208\_HBc\_P-D; GU456643\_HBc\_P-D; GU456682\_HBc\_P-D;  
JF754593\_HBc\_P-D; JN040812\_HBc\_P-D; JN257172\_HBc\_P-D; JN257173\_HBc\_P-D;  
JN642146\_HBc\_P-D; X80924\_HBc\_P-D; X80926\_HBc\_P-D; X85276\_HBc\_P-D; AB014375\_HBc\_P-RF-  
CB; FJ904444\_HBc\_P-RF-DE; X65259\_HBc\_P-RF-DA

### 50 Protein sequences are covered at 72 %:

GQ477487\_HBc\_P-A; JF439921\_HBc\_P-A; JF439935\_HBc\_P-A; AB212625\_HBc\_P-B;  
AB241116\_HBc\_P-B; AB900107\_HBc\_P-B; AF157021\_HBc\_P-B; EF473974\_HBc\_P-B;  
FJ386658\_HBc\_P-B; FJ562311\_HBc\_P-B; GQ924632\_HBc\_P-B; KJ803805\_HBc\_P-B; AB367392\_HBc\_P-  
C; AB670246\_HBc\_P-C; D23682\_HBc\_P-C; D23683\_HBc\_P-C; FJ386662\_HBc\_P-C; FJ562228\_HBc\_P-C;  
FJ562306\_HBc\_P-C; GQ475343\_HBc\_P-C; GQ475352\_HBc\_P-C; GU827639\_HBc\_P-C;  
JQ801480\_HBc\_P-C; JQ801518\_HBc\_P-C; JX026880\_HBc\_P-C; KJ598665\_HBc\_P-C; AB270550\_HBc\_P-  
D; AY236160\_HBc\_P-D; DQ336686\_HBc\_P-D; DQ464172\_HBc\_P-D; DQ464173\_HBc\_P-D;  
DQ486021\_HBc\_P-D; FJ904439\_HBc\_P-D; JF754592\_HBc\_P-D; JF754632\_HBc\_P-D;  
JN040768\_HBc\_P-D; JN642135\_HBc\_P-D; JN642165\_HBc\_P-D; JN688708\_HBc\_P-D;  
JN792908\_HBc\_P-D; X80928\_HBc\_P-D; X97849\_HBc\_P-D; FN594756\_HBc\_P-E; FN594762\_HBc\_P-E;  
FJ562223\_HBc\_P-RF-CD; FJ904400\_HBc\_P-RF-DE; FJ904430\_HBc\_P-RF-DE; FJ904442\_HBc\_P-RF-DE;  
GQ377592\_HBc\_P-RF-CB; KJ803827\_HBc\_P-RF-BC

### 14 Protein sequences are covered at 71 %:

AF324071\_HBc\_P-A; AF324070\_HBc\_P-B; GQ924635\_HBc\_P-B; AB670272\_HBc\_P-C;  
DQ089772\_HBc\_P-C; EU939601\_HBc\_P-C; KJ173319\_HBc\_P-C; FJ904422\_HBc\_P-D;



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JF754625\_HBc\_P-D; X85270\_HBc\_P-D; AM494692\_HBc\_P-E; AM494787\_HBc\_P-E; FN594749\_HBc\_P-E; HM363602\_HBc\_P-E

### 30 Protein sequences are covered at 70 %:

AB116086\_HBc\_P-A; AY034878\_HBc\_P-A; AY161142\_HBc\_P-A; AB073825\_HBc\_P-B;  
AB073843\_HBc\_P-B; AF480364\_HBc\_P-B; FJ386688\_HBc\_P-B; AB014383\_HBc\_P-C;  
AB670298\_HBc\_P-C; EU872005\_HBc\_P-C; FJ562329\_HBc\_P-C; GQ377623\_HBc\_P-C;  
GQ924642\_HBc\_P-C; KJ410515\_HBc\_P-C; KJ598671\_HBc\_P-C; AB555496\_HBc\_P-D;  
AY236164\_HBc\_P-D; DQ486022\_HBc\_P-D; EU726861\_HBc\_P-D; EU726864\_HBc\_P-D;  
FJ904415\_HBc\_P-D; GU456642\_HBc\_P-D; GU456669\_HBc\_P-D; JF754622\_HBc\_P-D;  
JN040771\_HBc\_P-D; X85268\_HBc\_P-D; EU366132\_HBc\_P-F; FJ356715\_HBc\_P-H; FJ904408\_HBc\_P-RF-DE; JN257154\_HBc\_P-RF-DE

### 25 Protein sequences are covered at 69 %:

AB076679\_HBc\_P-A; JF439767\_HBc\_P-A; AB205122\_HBc\_P-B; AB287321\_HBc\_P-B;  
AB642101\_HBc\_P-B; AB900097\_HBc\_P-B; AB900110\_HBc\_P-B; D50521\_HBc\_P-B; D50522\_HBc\_P-B;  
JN792897\_HBc\_P-B; JQ027316\_HBc\_P-B; KF166001\_HBc\_P-B; KJ803775\_HBc\_P-B;  
AB900113\_HBc\_P-C; AY206381\_HBc\_P-C; FJ386645\_HBc\_P-C; FJ787455\_HBc\_P-C; FJ904423\_HBc\_P-C;  
GQ377552\_HBc\_P-C; GQ377620\_HBc\_P-C; EU726975\_HBc\_P-D; JN040782\_HBc\_P-D;  
JN642164\_HBc\_P-D; AF350117\_HBc\_P-E; AY206374\_HBc\_P-RF-CB

### 25 Protein sequences are covered at 68 %:

FJ904411\_HBc\_P-A; AB010290\_HBc\_P-B; DQ463798\_HBc\_P-B; EU547563\_HBc\_P-B;  
EU939635\_HBc\_P-B; GQ924637\_HBc\_P-B; HM011466\_HBc\_P-B; JN792899\_HBc\_P-B;  
KC774397\_HBc\_P-B; AB074755\_HBc\_P-C; AB697502\_HBc\_P-C; AY206392\_HBc\_P-C;  
AF419521\_HBc\_P-D; DQ329357\_HBc\_P-D; EU726979\_HBc\_P-D; EU787439\_HBc\_P-D;  
JN040762\_HBc\_P-D; JN257153\_HBc\_P-D; JN257195\_HBc\_P-D; JN642136\_HBc\_P-D;  
JN687947\_HBc\_P-D; JX036343\_HBc\_P-D; FJ904428\_HBc\_P-RF-DE; GQ475335\_HBc\_P-RF-CB;  
JF754613\_HBc\_P-RF-DE

### 35 Protein sequences are covered at 67 %:

GQ477469\_HBc\_P-A; AB073841\_HBc\_P-B; AB287319\_HBc\_P-B; AB287323\_HBc\_P-B;  
AB900105\_HBc\_P-B; AY206383\_HBc\_P-B; DQ463800\_HBc\_P-B; EU939674\_HBc\_P-B;  
FJ386648\_HBc\_P-B; FJ899786\_HBc\_P-B; FJ899790\_HBc\_P-B; FJ899791\_HBc\_P-B; JN792898\_HBc\_P-





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B; KM213035\_HBc\_P-B; EU939552\_HBc\_P-C; GQ475351\_HBc\_P-C; KJ410518\_HBc\_P-C;  
KJ598762\_HBc\_P-C; AB109478\_HBc\_P-D; DQ329356\_HBc\_P-D; EU726932\_HBc\_P-D;  
HQ236015\_HBc\_P-D; JN040811\_HBc\_P-D; JN257165\_HBc\_P-D; JN257166\_HBc\_P-D;  
AB274976\_HBc\_P-E; AF350211\_HBc\_P-E; FN594748\_HBc\_P-E; HM363607\_HBc\_P-E;  
KJ638664\_HBc\_P-F; AB059659\_HBc\_P-H; AB674412\_HBc\_P-RF-DE; DQ991753\_HBc\_P-RF-DE;  
JN642152\_HBc\_P-RF-DE; KJ803788\_HBc\_P-RF-CB

### 18 Protein sequences are covered at 66 %:

GQ477473\_HBc\_P-A; GQ477474\_HBc\_P-A; AB073858\_HBc\_P-B; AY206391\_HBc\_P-B;  
AY220702\_HBc\_P-C; FJ023651\_HBc\_P-C; KJ598672\_HBc\_P-C; DQ464175\_HBc\_P-D;  
EU726954\_HBc\_P-D; EU921418\_HBc\_P-D; FJ904410\_HBc\_P-D; HQ700467\_HBc\_P-D;  
JF754634\_HBc\_P-D; JX036342\_HBc\_P-D; EU239220\_HBc\_P-E; EF576808\_HBc\_P-F; AB674434\_HBc\_P-  
RF-DE; FJ904409\_HBc\_P-RF-DE

### 4 Protein sequences are covered at 65 %:

EU726884\_HBc\_P-D; EU726901\_HBc\_P-D; FJ899792\_HBc\_P-D; FN594766\_HBc\_P-E

### 17 Protein sequences are covered at 64 %:

AB010291\_HBc\_P-B; EU522075\_HBc\_P-B; EU939678\_HBc\_P-B; AB365451\_HBc\_P-C;  
DQ089756\_HBc\_P-C; FJ899783\_HBc\_P-C; GQ924643\_HBc\_P-C; KJ598662\_HBc\_P-C;  
KJ598667\_HBc\_P-C; GU456658\_HBc\_P-D; JF754626\_HBc\_P-D; AM494793\_HBc\_P-E;  
HM363605\_HBc\_P-E; AB116654\_HBc\_P-F; AY161141\_HBc\_P-RF-AD; JN040803\_HBc\_P-RF-DE;  
KJ598675\_HBc\_P-RF-CB

### 21 Protein sequences are covered at 63 %:

AB116088\_HBc\_P-A; AB287320\_HBc\_P-B; AY800391\_HBc\_P-B; AY800392\_HBc\_P-B;  
KJ803816\_HBc\_P-B; EU939541\_HBc\_P-C; AF043594\_HBc\_P-D; AF419527\_HBc\_P-D;  
DQ336691\_HBc\_P-D; EU726897\_HBc\_P-D; GQ922004\_HBc\_P-D; GU456657\_HBc\_P-D;  
GU456675\_HBc\_P-D; JF754619\_HBc\_P-D; JN040774\_HBc\_P-D; JN040830\_HBc\_P-D;  
JN257183\_HBc\_P-D; X59795\_HBc\_P-D; EU939620\_HBc\_P-RF-CB; FJ562317\_HBc\_P-RF-CB;  
FJ904414\_HBc\_P-RF-DE



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### 19 Protein sequences are covered at 62 %:

AY269105\_HBc\_P-B; DQ463795\_HBc\_P-B; EU579441\_HBc\_P-B; FJ562260\_HBc\_P-B;  
JN792902\_HBc\_P-B; JQ801494\_HBc\_P-B; EU872013\_HBc\_P-C; EU939548\_HBc\_P-C;  
JX507211\_HBc\_P-C; KJ803776\_HBc\_P-C; AB674423\_HBc\_P-D; GU456639\_HBc\_P-D;  
GU456674\_HBc\_P-D; GU456679\_HBc\_P-D; JF754594\_HBc\_P-D; JF754611\_HBc\_P-D;  
JF754617\_HBc\_P-D; KF471640\_HBc\_P-D; AB274977\_HBc\_P-E

### 10 Protein sequences are covered at 61 %:

GQ477476\_HBc\_P-A; AB287327\_HBc\_P-B; GQ924630\_HBc\_P-B; GQ924638\_HBc\_P-B;  
DQ089785\_HBc\_P-C; GQ922000\_HBc\_P-D; JN642161\_HBc\_P-D; KJ470895\_HBc\_P-D; L27106\_HBc\_P-  
D; EU939623\_HBc\_P-RF-CB

### 14 Protein sequences are covered at 60 %:

AB900111\_HBc\_P-B; DQ993684\_HBc\_P-B; EU939661\_HBc\_P-B; GQ924641\_HBc\_P-B;  
JN792894\_HBc\_P-B; JN792896\_HBc\_P-B; AB642095\_HBc\_P-C; AB670255\_HBc\_P-C;  
AY167091\_HBc\_P-C; AB270542\_HBc\_P-D; GQ477453\_HBc\_P-D; HQ700439\_HBc\_P-D;  
AB274975\_HBc\_P-E; FN594763\_HBc\_P-E

### 6 Protein sequences are covered at 59 %:

AB023682\_HBc\_P-B; EU717214\_HBc\_P-C; JX036344\_HBc\_P-D; FJ349240\_HBc\_P-E;  
HM363599\_HBc\_P-E; JQ272888\_HBc\_P-F

### 10 Protein sequences are covered at 58 %:

AF419536\_HBc\_P-A; AJ627226\_HBc\_P-A; AB302095\_HBc\_P-B; AB115418\_HBc\_P-C;  
AB674416\_HBc\_P-D; AF419522\_HBc\_P-D; EU726929\_HBc\_P-D; HQ700458\_HBc\_P-D;  
AB274979\_HBc\_P-E; AB059660\_HBc\_P-H

### 8 Protein sequences are covered at 57 %:

GU563547\_HBc\_P-A; AB900103\_HBc\_P-B; KJ803824\_HBc\_P-B; AB330367\_HBc\_P-D;  
GU456647\_HBc\_P-D; AB116550\_HBc\_P-F; AB365453\_HBc\_P-F; FJ032343\_HBc\_P-RF-CB

### 6 Protein sequences are covered at 56 %:

AY596112\_HBc\_P-B; JN642144\_HBc\_P-D; AB219529\_HBc\_P-E; GQ161825\_HBc\_P-E;  
KF798305\_HBc\_P-E; KF679991\_HBc\_P-RF-DE

### 3 Protein sequences are covered at 55 %:

AB116092\_HBc\_P-A; AF419529\_HBc\_P-D; FJ904405\_HBc\_P-RF-DE



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### **10 Protein sequences are covered at 54 %:**

GQ477477\_HBc\_P-A; DQ463787\_HBc\_P-B; EU570075\_HBc\_P-B; FJ032344\_HBc\_P-B;  
FJ386656\_HBc\_P-B; GQ924645\_HBc\_P-B; JN792901\_HBc\_P-B; HM363598\_HBc\_P-E;  
EF494378\_HBc\_P-RF-CA; FJ562328\_HBc\_P-RF-CB

### **4 Protein sequences are covered at 53 %:**

EU487257\_HBc\_P-B; GQ922005\_HBc\_P-D; JF754609\_HBc\_P-D; HM363601\_HBc\_P-E

### **6 Protein sequences are covered at 52 %:**

DQ995804\_HBc\_P-B; EU939636\_HBc\_P-B; HM011476\_HBc\_P-B; KJ803773\_HBc\_P-B;  
JF754612\_HBc\_P-D; AB086397\_HBc\_P-F

### **6 Protein sequences are covered at 51 %:**

FJ032342\_HBc\_P-B; DQ089775\_HBc\_P-C; FJ562335\_HBc\_P-C; JQ801523\_HBc\_P-C;  
AB219534\_HBc\_P-E; AY230115\_HBc\_P-RF-DA

### **11 Protein sequences are covered at 50 %:**

AY230111\_HBc\_P-A; AY236165\_HBc\_P-A; AY236168\_HBc\_P-A; AY236169\_HBc\_P-A;  
DQ298161\_HBc\_P-A; DQ298163\_HBc\_P-A; DQ298164\_HBc\_P-A; AY596111\_HBc\_P-B;  
HM011496\_HBc\_P-B; GU456664\_HBc\_P-D; HM363611\_HBc\_P-E

### **1 Protein sequence is covered at 49 %:**

KC774240\_HBc\_P-C

### **3 Protein sequences are covered at 48 %:**

AB073853\_HBc\_P-B; JQ801517\_HBc\_P-C; GQ477456\_HBc\_P-D

### **1 Protein sequence is covered at 47 %:**

FJ904425\_HBc\_P-RF-DE

### **5 Protein sequences are covered at 46 %:**

AB073847\_HBc\_P-B; DQ463799\_HBc\_P-B; AB670295\_HBc\_P-C; EU939539\_HBc\_P-C;  
KJ803771\_HBc\_P-RF-DB

### **1 Protein sequence is covered at 45 %:**

DQ298165\_HBc\_P-A



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**1 Protein sequence is covered at 44 %:**

JQ801508\_HBc\_P-C

**1 Protein sequence is covered at 43 %:**

EU939657\_HBc\_P-C

**2 Protein sequences are covered at 42 %:**

AB287324\_HBc\_P-B; FJ349221\_HBc\_P-RF-DE

**1 Protein sequence is covered at 40 %:**

KC774323\_HBc\_P-RF-CB

**1 Protein sequence is covered at 39 %:**

EF494382\_HBc\_P-B

**1 Protein sequence is covered at 38 %:**

HQ700520\_HBc\_P-RF-CB

**1 Protein sequence is covered at 37 %:**

EU726953\_HBc\_P-E

**1 Protein sequence is covered at 34 %:**

AB287318\_HBc\_P-B

**1 Protein sequence is covered at 32 %:**

DQ298162\_HBc\_P-A

**1 Protein sequence is covered at 22 %:**

AB287317\_HBc\_P-B

**1 Protein sequence is covered at 13 %:**

KC774226\_HBc\_P-C