



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

HBV Core Protein, average coverage 92.5 %

Coverage of the sequences of HBV Capsid Protein was calculated with respect to the following GenBank accession identifiers:

**2680 Protein sequences are covered at 100 % (genotype A: 618; genotype B: 496; genotype C: 605; genotype D: 334; genotype E: 195; genotype F: 138; genotype G: 65; genotype H: 21; unclassified: 208):**

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**95 Protein sequences are covered at 99 % (genotype A: 38; genotype B: 13; genotype C: 8; genotype D: 25; genotype E: 5; genotype F: 1; unclassified: 5):**

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AB493833; AF121247; AF324106; AY269078; AY596104; DQ995801; EF134946; EU306709;  
EU796071; FJ023636; FJ386684; GQ358144; GU815609; GU815640; GU815659; GU815677;  
GU815678; GU815696; GU815700; GU815722; GU815754; JQ801524; JX507210; KC774406;  
KC774413; AB014395; AB026813; AB074756; AB176643; AB471849; AF241410; AF363961;  
AF384367; AY167096; AY206389; AY862869; DQ089782; DQ089784; DQ377164; DQ536410;  
EU306687; EU554539; EU939578; FJ032351; FJ386652; FJ562276; FJ715350; FJ715357;  
FJ715367; FJ715375; FJ715406; FJ715415; FJ715416; FJ787439; GQ358157; GQ475325;  
GQ855528; HQ700516; HQ700522; JN104435; JN827416; JQ801487; JQ801502; JX560519;  
KC875269; X75665; AB355452; AF419526; AF419540; AF419542; AY161157; AY230114;  
AY371919; AY603445; EU726917; EU726937; EU726946; GU456648; JN040793; JN257169;  
JN664919; JQ707501; KC875313; KC875324; KF779301; X65257; X85259; AB274972;  
AF350107; AF350109; AF350146; AF350160; AF350161; AF350164; AF350166; AF350183;  
GQ161794; GQ161835; HM363567; AY254498; EU366133; KC494394; KC494400; AB056513;  
AB056515; AB064312; GU563556; JF439799; JQ707436; KF767450; AY090457; AB105172;  
AB493837; AB493840; AB493847; AP011102; AP011103; AY233295; AY817513; AY862864;  
EU939606; FJ715387; GQ358155; GQ358156; GQ377594; HE981180; HQ700498; HQ700499;  
HQ700518; HQ700519; HQ700527; HQ700528; HQ700530; HQ700531; HQ700532;  
HQ700542; JN257189; JQ272887; JQ707448; JQ707457; JQ707458; JQ707460; JQ707461;  
JQ707462; JQ707464; JQ707465; JQ707466; JQ707467; JQ707469; JQ707470; JQ707474;  
JX429896; KC774263; KF170740; KM999993

**267 Protein sequences are covered at 97 % (genotype A: 25; genotype B: 45; genotype C: 73; genotype D: 54; genotype E: 25; genotype F: 6; genotype G: 6; unclassified: 33):**

AB116083; AF350087; AY233281; AY862868; EU414048; GU563545; HM535200; JF439774;  
JF439835; JF439837; JF439848; JF439859; JF439953; JN182329; JQ707335; JQ707336;  
JQ707555; JQ707594; JQ707607; KC875260; KF779283; KF779342; KF779371; KJ854690;

M57663; AB010289; AB073840; AB073846; AB073848; AB205121; AB219429; AB246341; AB246342; AB287314; AB287315; AB908304; AF121248; AF121251; AF233235; AF324069; AF335746; AP011088; AY167097; AY269095; DQ144561; DQ144598; DQ448626; DQ448628; DQ993711; EU306696; EU570069; EU570070; FJ032352; FJ032353; FJ386654; FJ386676; GQ358143; GU815605; GU815612; GU815619; GU815657; GU815668; GU815751; GU815778; JX429899; JX429908; JX869998; KC492739; KC836872; KJ803817; AB014396; AB111124; AB195949; AB195953; AB195954; AB246344; AB250109; AB298720; AB298721; AB670265; AB670309; AF461357; AF461363; AY641558; DQ089760; DQ089764; DQ089802; DQ377160; EU306722; EU560440; EU579442; EU670263; EU916213; EU916214; EU939582; EU939597; EU939609; EU939611; EU939640; FJ032356; FJ386595; FJ386612; FJ386628; FJ386630; FJ562288; FJ715366; FJ715389; FJ751764; FJ787449; GQ377605; GQ475321; GQ924623; GU721029; HM011493; HM042269; JN400087; JN400088; JN400089; JQ027320; JQ801473; JQ801510; JX036335; JX036336; JX036337; JX504534; KC774179; KC774247; KC774252; KC774297; KC774314; KC774320; KC875261; KJ173311; KJ173317; KJ173393; KJ173394; KJ173429; KJ173430; KJ410496; KJ803761; KJ803765; KJ803766; KM359441; AB090269; AB109477; AB110075; AB355456; AF121242; AM422939; AY233292; AY233294; AY233296; AY371912; AY603427; AY603434; DQ178015; EF103281; EU155895; EU594411; EU594412; EU594422; EU726873; EU726905; EU726931; EU726977; EU787436; FJ349217; FJ349231; FJ562338; GQ183473; GQ183474; GQ183475; GQ205380; GQ205388; GU456653; GU456680; HM042266; JF754605; JN040758; JN040804; JN040813; JN664918; JN664928; JN664931; JX310735; KC875297; KC875316; KC875317; KC875337; KF018187; KF018190; KF679995; KF779220; KF798299; LK995394; X02496; X85308; AF350113; AF350135; AF350136; AF350142; AF350158; AF350177; AF350180; AF350182; AF350187; AF350203; AF350204; AF350209; AM494698; AM494794; AM494795; AM494812; EU726883; GQ161755; GQ161795; GQ161801; GQ161808; HM363583; HM363593; JQ000009; KF170741; AB036908; AY090455; AY311370; DQ899146; JX079936; KJ843169; JF439792; JF439793; JF439796; JF439801; JQ707657; KF779235; AY123424; AY233293; AY862865; AY862866; EF103282; EF103283; EU589337; EU594406; EU881995; EU916232; FJ692536; GQ161806; GQ377607; GU563560; HF571060; HQ700526; JN257164; JN642160; JQ707424; JQ707459; JQ707463; JQ707473; KC774349; KC774425; KC774430; KC774431; KC774486; KC774488; KC774493; KJ173320; KJ173322; KJ410506; U95551

**362 Protein sequences are covered at 96 % (genotype A: 110; genotype B: 41; genotype C: 129; genotype D: 35; genotype E: 9; genotype F: 7; genotype G: 1; genotype H: 2; unclassified: 28):**

AB116081; AB116082; AB116093; AB453987; AB697511; AF297622; AF297623; AF324135; AF350081; AF350083; AJ309370; AM295796; AY233275; AY233285; AY603429; AY603438; AY603446; AY738139; AY738142; AY738143; EU594387; EU859898; EU859912; EU859934; EU859935; EU859936; FJ349222; FJ692554; FJ692562; GQ184323; HE576989; HM535205; JF439820; JF439824; JF439825; JF439827; JF439845; JF439855; JF439861; JF439952; JF439973; JF439979; JF439981; JF439985; JF439990; JF439992; JN182323; JQ707314; JQ707318; JQ707319; JQ707321; JQ707322; JQ707325; JQ707329; JQ707337; JQ707339; JQ707345; JQ707347; JQ707348; JQ707349; JQ707350; JQ707351; JQ707352; JQ707353; JQ707354; JQ707355; JQ707357; JQ707358; JQ707359; JQ707360; JQ707361; JQ707362; JQ707363; JQ707364; JQ707365; JQ707366; JQ707367; JQ707370; JQ707396; JQ707534;



JQ707655; JQ707658; JQ707659; JQ707661; JQ707662; JQ707663; JQ707664; JQ707665; JQ707667; JQ707669; JQ707670; JQ707672; JQ707674; JQ707675; JQ707676; JQ707681; KC875252; KC875258; KF779239; KF779252; KF779260; KF779281; KF779284; KF779351; KF779365; KF779381; KF798271; KF798291; KJ854691; V00866; AB023677; AB048705; AB355453; AF323470; AF324078; AF324101; AF335740; AY269065; EF473977; EU306707; EU330997; EU439021; FJ562303; GQ475340; GQ924610; GU815635; GU815676; GU815699; GU815701; GU815706; GU815707; GU815710; GU815772; GU815773; GU815774; GU815776; GU815779; GU815781; GU815782; GU815783; KC774365; KC774371; KC774383; KC774389; KC774395; KC774400; KF167010; KJ173348; KJ173356; KJ173382; KJ173413; AB014365; AB014374; AB014378; AB014381; AB014390; AB014391; AB033553; AB105173; AB112348; AB112471; AB205124; AB246346; AB367410; AB367412; AB367431; AB471851; AB642099; AB670290; AB670302; AF241411; AF384371; AF384372; AY247031; AY641561; D50517; D50518; DQ144553; DQ144603; DQ144604; DQ377162; DQ377165; DQ975273; DQ980550; DQ993691; EF197911; EF494377; EU305541; EU305542; EU306719; EU560441; EU570067; EU589340; EU589341; EU589342; EU916212; EU916223; EU916229; EU919168; FJ151413; FJ386576; FJ386601; FJ386618; FJ386631; FJ386637; FJ386650; FJ562233; FJ562256; FJ562268; FJ562281; FJ562284; FJ562290; FJ562295; FJ715364; FJ715381; FJ787481; FJ787486; FJ899776; FJ899777; GQ377545; GQ377577; GQ475322; GQ475332; GQ872210; HQ700456; HQ700495; HQ700496; HQ700502; HQ700504; JN104437; JQ040154; JQ801490; JX026884; JX026885; JX036339; JX429905; JX507214; JX560520; KC774195; KC774211; KC774217; KC774227; KC774243; KC774251; KC774259; KC774264; KC774278; KC774286; KC774316; KC774326; KC774345; KC774346; KC774357; KC875273; KF779300; KJ173302; KJ173431; KJ598642; KJ598645; KJ598647; KJ598648; KJ598652; KJ598655; KJ598660; KJ598681; KJ598705; KJ598706; KJ598707; KJ598708; KJ598709; KJ598711; KJ598712; KJ598713; KJ598714; KJ598715; KJ598717; KJ598718; KJ598719; KJ803774; KJ803813; AB078031; AB078032; AB078033; AB222709; AY721605; DQ178020; EU787443; FJ904412; GQ183470; GU456661; GU456667; GU456668; HM750152; JF754597; JN040756; JN040767; JN040792; JN642130; JN642138; JN664947; JX096955; KC774459; KC774477; KC875284; KC875287; KC875299; KC875302; KC875306; KC875309; KF471645; KF471653; KF471660; KF779225; X65258; X85302; AB274973; AB274978; AB274981; AF350114; AF350123; AF350215; AM494807; GQ161791; GQ161836; AY090459; DQ823087; EU670262; KJ638659; KJ843163; KJ843167; KJ843202; HE981172; AB205010; JX896128; AF297620; AY161147; EU833889; EU916239; EU916240; EU916241; FJ904403; GQ377602; GQ377613; GQ377633; HM750147; HQ700509; JN104438; KC774188; KC774222; KC774291; KC774307; KC774420; KC774432; KC774443; KC774461; KC774463; KC774484; KC774494; KC774498; KJ173280; X68292; X75656

**86 Protein sequences are covered at 95 % (genotype A: 9; genotype B: 10; genotype C: 32; genotype D: 20; genotype E: 4; genotype F: 2; genotype G: 1; unclassified: 8):**

AF324133; FN545840; GQ477495; GQ477496; JF439958; JF439969; JQ707369; KF779254; KF798265; EF473971; EU306712; FJ386683; GQ377610; GU815558; GU815587; GU815695; JX504538; KC774370; KJ803764; AB014388; AB367418; AB367428; AB367434; AB670269; AF458664; AY206386; DQ089780; DQ478899; EU439005; EU498227; EU562216; EU570073; EU570074; EU916215; EU939574; FJ032334; FJ032355; FJ386574; FJ386603; FJ715376; GQ377521; GQ377609; HM750141; JQ027319; JQ801493; KC774300; KC875268; KF873541;



KJ598691; KJ598726; KJ803790; AB270539; AB674425; AY161158; AY945307; DQ464168; EF103279; EU726935; GQ205385; GQ924652; JF754588; JN132130; JN558561; JN642133; KC875276; KC875300; KC875314; KC875318; KC875320; KC875330; KF779216; AF350206; AM494806; AM494811; GQ161833; KC494396; KC494401; HE981171; AB188245; EF103285; EU871997; FJ386633; FJ562226; GQ377611; JF436923; KJ803753

**236 Protein sequences are covered at 94 % (genotype A: 34; genotype B: 46; genotype C: 56; genotype D: 48; genotype E: 10; genotype F: 1; genotype H: 1; unclassified: 40):**

AB116078; AB126580; AF297621; AF324127; AF537371; AY738140; AY738141; EU185787; EU185789; FJ692575; FJ692606; FJ692608; GQ477479; JF439829; JF439869; JF439870; JF439871; JF439872; JF439873; JF439874; JF439875; JF439876; JF439877; JF439878; JF439879; JF439880; JF439881; JF439882; JF439883; JF439962; JQ707312; KF779361; KF798267; KJ843172; AB713531; AB908300; AF324085; AF480350; AY596103; D23679; DQ144564; DQ144594; DQ144602; DQ361535; EF134945; EU881997; EU881998; FJ562237; JQ707734; JQ707735; JQ707737; JQ707738; JQ707739; JQ707740; JQ707742; JQ707743; JQ707744; JQ707745; JQ707746; JQ707747; JQ707749; JQ707750; JQ707753; JQ707755; JQ707758; JQ707759; JQ707762; JQ707763; JQ707764; JQ707765; JQ707766; JQ707767; KC774368; KC774405; KC774410; KJ173298; KJ173368; KJ803784; KJ803825; KM213036; AB014363; AB014384; AB014399; AB042282; AB205125; AB367416; AB670241; AF182803; AF533983; DQ089786; DQ089796; DQ922649; EF384201; EU522068; EU796069; EU871969; EU871971; EU939537; EU939564; EU939571; EU939614; FJ023640; FJ386604; FJ386627; FJ386657; FJ562225; FJ562304; FJ751765; FJ787437; FJ787461; GQ377583; GQ377628; GQ377636; GQ475344; GQ475349; GQ475355; GQ475357; GQ855541; HM011497; JF828921; JF828922; JF828928; JX429903; KC774218; KC774221; KC774302; KC774311; KC774331; KJ410498; KJ598646; KJ598649; KJ598650; KJ598651; KJ598653; KJ598661; KJ598750; AB090268; AB222710; AB270546; AF419530; AY796030; DQ178016; DQ304550; DQ304551; DQ464182; EU594434; EU726845; EU726853; EU726893; EU726921; FJ349206; FJ349230; FJ349233; FJ692532; FJ692533; GQ205382; GQ205389; GU456638; GU456662; JF439692; JF439696; JF439699; JF439703; JF754627; JN040785; JN040824; JN040828; JN257211; JN664914; JN664939; JQ707511; KC774436; KC774460; KC875289; KC875296; KC875308; KC875312; KC875315; KC875331; KC875340; KJ470889; KJ843187; X85318; X97848; AF350159; AF350219; AF350220; EU239223; GQ161760; GQ161773; GQ161785; GQ161802; GQ161826; KF798275; KJ638656; JX896133; AB033559; AB194949; AB367400; AB493838; AB493842; AF411409; DQ315779; EF494376; EU185780; EU871992; EU871993; EU871996; EU872014; EU872015; EU919167; FJ386581; GQ331048; GU357843; HM750148; HQ700497; HQ700501; HQ700503; HQ700515; HQ700524; HQ700525; HQ700533; HQ700541; JN664940; KC012653; KC774178; KC774305; KC774364; KC774428; KC774450; KJ470884; KJ470886; KJ470887; KJ470888; KJ470890; Y18857

**170 Protein sequences are covered at 93 % (genotype A: 6; genotype B: 34; genotype C: 57; genotype D: 27; genotype E: 16; genotype F: 3; genotype G: 1; genotype H: 2; unclassified: 24):**

AB194951; EU859952; GQ331047; JF439750; KC875259; KF779329; AB073831; AB073845; AB908303; AF157024; AF324066; AF480342; AY217360; AY596110; EF494380; EU306678; FJ023605; FJ023607; FJ023609; FJ023611; FJ023612; FJ023614; FJ667207; FJ755833;



GQ358148; GQ377625; GQ855526; GQ924624; GU815712; GU815761; GU815764;  
GU815775; GU815777; JF775482; JF775483; JQ040125; KC774396; KC774408; KJ410490;  
M54923; AB014376; AB112066; AB202071; AB367407; AB367422; AB367424; AF182804;  
AF324084; AY247032; AY596108; DQ089803; DQ922651; DQ975274; EU871970; EU871972;  
EU939569; EU939583; EU939615; FJ023567; FJ023568; FJ023587; FJ023590; FJ023591;  
FJ023648; FJ032346; FJ032359; FJ032360; FJ386611; FJ386626; FJ386653; FJ562232;  
FJ562332; FJ715344; FJ715372; FJ715383; FJ715403; FJ787442; FJ787443; FJ787458;  
FJ787464; FJ787465; GQ377599; GQ377632; GQ475326; GQ924613; JQ801522; KC774194;  
KC774334; KC774338; KC875263; KF873516; KJ173432; KJ598654; KJ598656; KJ598657;  
KJ803815; X52939; AB210821; AB210822; AY371916; AY721607; AY721608; DQ304547;  
EU155893; EU726904; EU919197; GU456663; HQ700483; JF439712; JF754618; JN040809;  
JN132132; JN257170; JN257179; JN642143; JN664910; JN664932; JN792903; JQ707484;  
JQ707493; KC875305; KC875329; KC875333; X85298; AF350110; AF350153; AF350167;  
AF350173; AF350175; AF350188; AM494711; AM494805; AY739675; AY935700; GQ161758;  
GQ161766; GQ161774; GQ161782; GQ161790; GQ161812; FJ589065; FJ657519; KC494404;  
JQ707673; AB059661; JX896129; AY817512; DQ315777; FJ023659; FJ023664; FJ023667;  
FJ023670; FJ023673; FJ349241; FJ386643; FJ882610; FJ882614; FN594771; FR714490;  
HM750142; JF436919; KC172106; KC774414; KC774454; KC774479; KF917451; KJ173358;  
KJ803772; KJ803802; KJ803804

**190 Protein sequences are covered at 92 % (genotype A: 15; genotype B: 23; genotype C: 77; genotype D: 40; genotype E: 4; unclassified: 31):**

AJ309369; AJ309371; EU859938; EU859944; GQ477478; GQ477484; GQ477498; GU563551;  
JF439954; JQ023660; JQ707577; JQ707595; JQ707596; JQ707605; KC875255; AB493835;  
AB908299; AF335751; AF480361; EU306677; EU306679; EU306680; EU330996; EU487256;  
EU939633; EU939634; FJ023575; FJ023620; FJ562234; FJ562262; GQ358140; GQ924647;  
GU815574; GU815577; GU815578; GU815747; GU815748; KJ803796; AB014379; AB014380;  
AB111125; AB195942; AB195943; AB195944; AB195947; AB195948; AB367423; AB367803;  
AB670277; AB670289; AF411410; AY167090; AY167092; AY641559; DQ993692; EU439013;  
EU522069; EU554540; EU871974; EU916226; EU939545; EU939550; EU939567; EU939584;  
EU939618; EU939648; EU939652; FJ023589; FJ386605; FJ386625; FJ386629; FJ386647;  
FJ386661; FJ386670; FJ562243; FJ562252; FJ562255; FJ562261; FJ562285; FJ562293;  
FJ562334; FJ715421; FJ787462; FJ787463; FJ899789; GQ475342; GQ924616; GQ924636;  
HM750134; HQ638218; JF828923; JF828924; JF828925; JF828926; JF828929; JF828930;  
JF828931; JQ027321; JQ040158; JQ801509; JX026878; KC774199; KC774275; KC774279;  
KC774282; KC774301; KC774306; KC774313; KC875264; KJ173290; KJ173337; KJ598644;  
KJ598721; KJ598752; KJ598772; AB120308; AB270549; AB674411; AJ344116; AY371913;  
AY741797; DQ336681; EU726847; EU726922; EU726943; EU726959; EU921419; FJ349234;  
FJ904420; FJ904421; GU456670; HQ700478; JF439718; JF754633; JN040752; JN040757;  
JN040777; JN040808; JN040822; JN257186; JN257205; JN558563; JN558564; JN664920;  
JN664921; JN664948; JN688679; KC875326; KF061170; KF471644; KF471658; LK995390;  
X85277; X85279; X85295; AF350168; AF350207; GQ161762; KF849720; AB188243;  
AB198084; EF103284; EU522070; EU871981; EU871983; EU871984; EU871986; EU871987;  
EU871988; EU871989; EU871990; EU871991; EU871995; EU871999; FJ904440; HQ684849;





JF436922; JF828933; JF828934; JF828935; JF828936; JF828938; JN664915; JN664925; JN664935; JQ707468; KC774442; KC875338; KC875339; KJ803798

**244 Protein sequences are covered at 91 % (genotype A: 73; genotype B: 45; genotype C: 46; genotype D: 43; genotype E: 14; genotype F: 5; genotype H: 2; unclassified: 16):**

AB246336; AF324072; AF324118; AF324123; AF419534; AY152726; DQ788725; EU859919; FJ692570; FJ692613; GQ477464; GQ477494; GU563550; JF439720; JF439721; JF439722; JF439723; JF439726; JF439727; JF439730; JF439731; JF439732; JF439733; JF439735; JF439736; JF439741; JF439742; JF439746; JF439747; JF439822; JF439828; JF439896; JF439897; JF439898; JF439899; JF439901; JF439902; JF439903; JF439904; JF439905; JF439906; JF439907; JF439908; JF439909; JF439910; JF439964; JQ707574; JQ707575; JQ707579; JQ707580; JQ707581; JQ707583; JQ707584; JQ707585; JQ707586; JQ707587; JQ707588; JQ707589; JQ707590; JQ707591; JQ707592; JQ707597; JQ707599; JQ707603; JQ707604; JQ707606; JQ707608; KC875251; KF779213; KF779215; KF779297; KF779334; KF798266; AB205120; AB231909; AB287322; AB976562; AF157020; AF335748; AY217357; AY217358; D00329; DQ144543; DQ144544; DQ144546; DQ144548; DQ144552; DQ144554; DQ144555; DQ144557; DQ144558; DQ144565; DQ144567; DQ144569; DQ144570; DQ144574; DQ144575; DQ144578; DQ144582; DQ144583; DQ144584; DQ144586; DQ144590; DQ144593; DQ993707; EU306681; EU796066; EU939666; EU939673; FJ023573; FJ023576; FJ023608; FJ023628; FJ751767; GQ924607; GU815662; JQ429082; KC774377; AB014361; AB112472; AB195945; AB367395; AB367413; AB367435; AB670253; AB670266; AB670310; AF182802; AF182805; AY269140; DQ089794; DQ986376; EU871973; EU939585; EU939647; EU939655; EU939656; FJ023566; FJ386624; FJ562300; FJ562324; FJ715404; FJ787457; GQ372968; GQ924622; GQ924655; HM011491; HM011500; JQ429078; KC774352; KJ173316; KJ598720; KJ598723; KJ598724; KJ598725; KJ598728; KJ598729; KJ598731; KJ598732; KJ598734; KJ598735; KJ598738; KJ598739; KJ803757; AB267090; AB270537; AB674408; AY796031; DQ336688; DQ399006; EU594399; EU726947; GQ205384; GQ477454; GU456683; JF754595; JN040778; JN040791; JN040799; JN132126; JN558562; JN664926; JN697591; JQ707483; JQ707486; JQ707498; JQ707512; JQ707513; JQ707514; JQ707515; JQ707516; JQ707517; JQ707518; JQ707519; JQ707520; JQ707521; JQ707522; JQ707523; JQ707524; JQ707525; JQ707526; JQ707527; JQ707528; JQ707530; KC875290; KF779289; X85255; AF350112; AF350115; AF350137; AF350154; AF350176; AM494714; FN545822; GQ161756; GQ161780; GQ161792; GQ161803; HM363569; HM363570; KF849719; DQ899149; DQ899150; FJ589067; JN792919; KJ843168; HM066946; HQ285946; AB367800; EU833890; EU939629; FJ562271; FJ715345; FJ715346; FJ715347; FJ904406; GQ161767; GQ205379; GQ205387; JN664933; JN664946; JQ707426; KC774485; KJ803803

**278 Protein sequences are covered at 90 % (genotype A: 11; genotype B: 48; genotype C: 87; genotype D: 94; genotype E: 8; genotype F: 3; unclassified: 27):**

FJ692599; FN545826; GQ477490; JF439734; JF439743; JF439826; JF439832; JF439986; JN182334; JQ707346; JQ707576; AB073835; AB117759; AB246340; AB302943; AB642094; AF100309; AF233234; AF282917; AF282918; AF324067; AF324082; AF480341; AF480345; AM888201; AY167101; AY517620; AY596106; AY800389; DQ144550; DQ144585; DQ995805; EU158262; EU439020; EU522066; EU660224; EU939638; FJ023606; FJ023613; FJ023618; FJ023630; FJ023633; FJ032349; FJ386675; FJ562236; FJ562253; FJ562254; GQ377519;





GQ377582; GQ377622; GQ924644; GU815627; JQ040147; JQ429081; KJ173362; KJ173379; KJ173386; KJ803787; X97851; AB014360; AB014373; AB049610; AB111114; AB111121; AB117758; AB195936; AB195937; AB195938; AB367398; AB367414; AB697494; AY066028; AY206382; AY220699; AY641562; D28880; D50520; DQ089761; DQ089795; DQ089800; DQ683578; EF536065; EF536066; EU916210; EU939536; EU939543; EU939560; EU939572; EU939573; EU939588; EU939594; EU939612; EU939651; EU939659; FJ023624; FJ023645; FJ032347; FJ386613; FJ386651; FJ386671; FJ386689; FJ562238; FJ562239; FJ562266; FJ562299; FJ562307; FJ562308; FJ562325; FJ562333; FJ562340; FJ715359; FJ787466; FJ787467; FJ787468; FJ899778; FJ899788; GQ227693; GQ227695; GQ259588; GQ377593; GQ377597; GQ475309; GQ475320; GQ475341; HQ700490; JF436920; JQ801489; JQ801503; JX504542; KC774207; KC774245; KC774340; KC774353; KF166858; KJ173445; KJ410505; KJ410508; KJ598722; KJ598727; KJ598730; KJ598733; KJ598736; KJ598737; KJ598780; KJ803769; S75184; AB270547; AF324141; AF419516; AY161159; AY161160; AY371918; AY373431; AY796032; DQ336680; DQ336682; DQ336684; EU726844; EU726849; EU726876; EU726906; EU726912; EU726957; EU726958; FJ349215; FJ904427; GQ183449; GQ183450; GQ183451; GQ183452; GQ183453; GQ183454; GQ183455; GQ183456; GQ183457; GQ183458; GQ183459; GQ183460; GQ183461; GQ183462; GQ183463; GQ183464; GQ183465; GQ183466; GQ183467; GQ183468; GQ183469; GQ477455; GU456635; GU456649; GU456673; HQ641710; HQ700474; JF439700; JF439701; JF754599; JF754604; JF754610; JF754623; JN040761; JN132127; JN132128; JN257201; JN642126; JN642129; JN642155; JN642156; JN642162; JN664909; JN688685; JQ707476; JQ707478; JQ707479; JQ707481; JQ707482; JQ707485; JQ707487; JQ707488; JQ707489; JQ707490; JQ707494; JQ707496; JQ707499; JQ707500; JQ707502; JQ707503; JQ707505; JQ707507; JQ707508; JX470760; KC012652; KC875295; KC875334; KC875341; KF018192; KF061167; KF061169; KF471655; KF471657; KF798301; AB274985; AF350111; AF350184; AF350191; AF350202; GQ161786; HM363584; KF849725; AB365449; JN792914; KJ843225; AB205152; AB222708; AB270535; AB674432; AY341335; DQ478886; DQ478898; EU871985; FJ562278; FJ562302; FJ904397; JF439995; JF439996; JF439998; JF440000; JF440001; JF440002; JF440003; JF440006; JF440008; JF440009; JF440010; JF440014; JF440015; JQ040142; JX504540; KM386676

**91 Protein sequences are covered at 89 % (genotype A: 24; genotype B: 6; genotype C: 14; genotype D: 38; unclassified: 9):**

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

**129 Protein sequences are covered at 88 % (genotype A: 10; genotype B: 34; genotype C: 42; genotype D: 29; genotype E: 5; genotype F: 2; unclassified: 7):**

EF103278; FM199977; GQ184324; GQ477465; GQ477466; JF439737; JF439900; JQ687533; JQ707388; JQ707598; AB031268; AB033554; AB073822; AB073833; AB287316; AB302942; AB302944; AB368295; AB713532; AF157023; AF157025; AF335738; AF480353; DQ144556; DQ144595; DQ993683; EU882003; EU882004; EU919172; EU939637; EU939660; EU939676; FJ023629; FJ562240; FJ562321; FJ592177; FJ787477; GQ377525; GQ377606; KC774419; KF164967; KJ173418; KJ173419; KP036970; AB014382; AB014392; AB014394; AB014397; AB182589; AB202072; AB300372; AB367402; AB367405; AB367406; AB367425; AB670261; AB670275; AB670276; AY206385; DQ089771; DQ089797; DQ478885; EU579443; EU589336; EU871980; EU871998; EU916216; EU939568; EU939579; EU939587; FJ023625; FJ386609; FJ386673; FJ562272; FJ562318; FJ562327; FJ562330; FJ715343; JQ040135; JQ801515; KC774354; KC774355; KC875271; KJ598658; KJ803780; KJ803810; AF043593; AF324110; AY161150; AY161151; AY161152; AY161153; AY161154; AY161155; AY161156; AY741794; AY741795; AY741796; DQ178017; DQ304548; DQ304549; DQ486025; EU726886; EU726926; EU726950; FJ904438; JF439695; JF754598; JN132131; JN257163; JQ287619; JQ707497; JQ707504; KC875298; KF471656; AM494703; FN545821; HM363594; HM363596; HM363604; AB214516; AF324143; DQ315780; EU939547; FJ904437; JF440013; JN040798; JN664943; JX026887

**140 Protein sequences are covered at 87 % (genotype A: 11; genotype B: 23; genotype C: 46; genotype D: 40; genotype E: 8; genotype F: 4; unclassified: 8):**

AB453986; AB453989; FJ692558; JF439830; JQ023661; JQ707299; JX154580; JX154581; JX154582; KF779249; KJ854685; AB023663; AB031266; AB073823; AB219426; AB555498; AB900112; AF121250; AF480348; AY517488; DQ144551; DQ144581; DQ144592; DQ144600; DQ463788; EU306699; FJ023617; FJ386680; FJ562224; FJ751769; GQ377644; GQ924660; KC774362; X97850; AB014369; AB111122; AB112408; AB195952; AB367421; AB670270; AB670300; AF411408; AF411411; AF411412; DQ089766; DQ315782; DQ980551; EU554536; EU796070; EU796072; EU939593; EU939603; EU939642; FJ023677; FJ386663; FJ562291; FJ715422; FJ787469; GQ475337; JF828906; JF828907; JF828908; JF828911; JF828912; JF828937; JN104434; JX504536; KC315399; KC875265; KJ410489; KJ410492; KJ598741; KJ598742; KJ598743; KJ598744; KJ598746; KJ598747; KJ598748; KJ598751; KJ598754; AB555501; AB674405; AB674420; AF419524; AY371908; AY371911; AY603433; EU185779; EU594408; EU726860; EU726865; EU726875; EU726881; EU726910; EU726951; EU726965; GQ183448; GQ477457; GQ922001; GU456660; HQ700481; JF754629; JN040754; JN040784; JN040795; JN040802; JN642147; JN642166; JN664941; JN792906; JQ707480; JQ707506; JQ707509; JQ707704; KC875301; KC875304; KC875307; KC875322; KC875323; KF471641; GQ161757; GQ161778; GQ161783; GQ161796; GQ161810; GQ161824; HM363595; KF849728; AB166850; HM585194; JX899376; KJ843195; FJ023666; FJ349207; FJ361772; FJ562227; FJ562287; FJ904447; JF440004; JF440005

**140 Protein sequences are covered at 86 % (genotype A: 15; genotype B: 26; genotype C: 60; genotype D: 14; genotype E: 10; genotype F: 2; unclassified: 13):**



AY373429; GQ222208; GQ477463; GQ477488; GU827640; JF439738; JF439930; JF439934; JF439936; JF439937; JF439938; JF439939; JF439940; JF439942; JQ707582; AB014366; AB073824; AB302945; AF323467; AF324073; AF480349; AF480355; AF480357; AF480362; AF480363; DQ144576; EU522074; EU919171; EU939672; FJ751766; FJ899784; JX429910; KC774367; KC774412; KF165906; KJ173373; KJ803755; KJ803756; KJ803758; KJ803795; KM213034; AB111116; AB111117; AB111123; AB670249; AY206378; AY641563; DQ361534; DQ536411; DQ536413; EU439015; EU560438; EU939540; EU939544; EU939561; EU939607; EU939610; EU939613; EU939626; EU939658; FJ386589; FJ386672; FJ518810; FJ787488; FJ787490; GQ184326; GQ227694; GQ377526; JQ027332; JQ040168; JQ707707; JQ707709; JQ707710; JQ707711; JQ707712; JQ707713; JQ707715; JQ707716; JQ707717; JQ707718; JQ707719; JQ707720; JQ707721; JQ707722; JQ707723; JQ707724; JQ707725; JQ707726; JQ707727; JQ707728; JQ707729; JQ707730; JQ707731; JQ707732; JQ707733; JQ801499; JQ801520; KC774296; KF165568; KJ410514; KJ803762; AY090453; DQ315778; FJ349220; FJ904395; JN642140; JN792907; JQ707529; JQ707695; KC774445; KF779218; KF779224; KF798281; X85254; X85299; AB201290; AF350144; AF350145; AM494695; AY269055; EU239217; EU239222; GQ161775; HM363575; KF849726; HM622135; JN792916; AB048702; AB048703; EU717211; EU939589; FJ562229; FJ562267; GQ377590; HQ700500; HQ700539; HQ700540; J02202; JN642127; JQ707714

**119 Protein sequences are covered at 85 % (genotype A: 13; genotype B: 20; genotype C: 35; genotype D: 37; genotype E: 1; genotype F: 1; unclassified: 12):**

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

**90 Protein sequences are covered at 84 % (genotype A: 7; genotype B: 25; genotype C: 36; genotype D: 11; genotype E: 5; genotype F: 1; genotype H: 1; unclassified: 4):**

AB222707; EU414050; JF439724; JF439729; JF439744; JF439751; JX154579; AB031264; AB031267; AB073836; AB073837; AB073844; AB246343; AB287326; AF480340; AF480343; AF480354; AF480359; AP011093; AY217361; AY269109; AY269110; DQ144545; DQ463792; EU919173; EU939663; EU939669; FJ023631; FJ032357; FJ899779; GU827630; JX429901; AB014387; AB105174; AB111118; AB300360; AB367408; AB670304; AB670308; DQ089791; EU522071; EU560439; EU570072; EU872001; EU872002; EU872003; EU939546; EU939563;

EU939570; EU939643; FJ386579; FJ386594; FJ386644; FJ386679; FJ562235; FJ562241; FJ787471; FJ848339; FJ899761; FJ899764; FJ899765; FJ899769; GQ227696; GQ377543; GQ475318; JF828910; KJ598637; KJ598638; AB119251; AJ627224; EU726885; GU456646; GU456655; HQ700472; JF439704; JF439705; JN040775; JN040821; JN257148; AB219533; AF350208; AM494796; HM363597; HM363606; KC494399; AB064315; EU939630; JF440012; KJ410497; KJ803785

**54 Protein sequences are covered at 83 % (genotype A: 8; genotype B: 13; genotype C: 15; genotype D: 12; genotype E: 2; genotype G: 1; unclassified: 3):**

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

**91 Protein sequences are covered at 82 % (genotype A: 8; genotype B: 17; genotype C: 33; genotype D: 13; genotype E: 5; unclassified: 15):**

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

**67 Protein sequences are covered at 81 % (genotype A: 5; genotype B: 12; genotype C: 21; genotype D: 21; genotype E: 6; unclassified: 2):**

FN545828; GQ477491; GQ477499; GQ477504; JF439931; AB100695; AB241117; AF480347; AF480358; AY269102; DQ463789; EF494381; EU939559; FJ032358; FJ562289; JX504532; KJ843165; AB112065; AB367426; AB367432; AB367801; AB367804; DQ975272; EU916234; EU939556; EU939625; FJ386632; FJ562251; FJ562264; FJ562301; FJ715390; FJ899771; GQ475356; GQ855543; GQ924615; JQ707708; JX504535; KJ803812; AB119254; AB119255; AF419523; AY090452; GQ167301; GQ167302; GU456652; GU456656; GU456659; JN040766; JN040770; JN040796; JN642134; JN642142; JN642148; JN664922; JN792905; JQ687531; KF018177; KF018195; X85264; AF350105; FN594765; HM363576; HM363578; HM363609; KF849724; JF440011; KJ470891

**101 Protein sequences are covered at 80 % (genotype A: 18; genotype B: 14; genotype C: 21; genotype D: 31; genotype E: 5; genotype F: 1; unclassified: 11):**

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

**62 Protein sequences are covered at 79 % (genotype A: 1; genotype B: 12; genotype C: 18; genotype D: 21; genotype E: 6; genotype F: 1; unclassified: 3):**

FJ692595; AB073839; AB073856; AB212626; AB300370; AF461360; AF480346; AJ298864; DQ993687; FJ562257; FJ562259; KJ803752; KJ803786; AB014371; AB074047; AB111946; AB367401; AB367429; AB485810; AB670278; D23681; D23684; EU939599; EU939653; FJ032338; FJ562230; FJ562273; FJ787487; KJ598679; KJ598686; KJ803826; AB119253; AB555497; AF419538; DQ178012; DQ486023; EU726850; EU726892; EU726899; GU456637; GU456676; JF754631; JN040781; JN040797; JN040800; JN040801; JN257160; JN257161; JN642128; JN642154; JN642159; KC875328; AB205188; AM494792; AM494797; GQ161797; HM363600; HM363603; JN792918; AB674436; EU833891; FJ882611

**66 Protein sequences are covered at 78 % (genotype A: 8; genotype B: 12; genotype C: 14; genotype D: 20; genotype E: 5; unclassified: 7):**

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

**20 Protein sequences are covered at 77 % (genotype A: 1; genotype B: 6; genotype C: 3; genotype D: 7; genotype E: 1; unclassified: 2):**

JF439932; AB362933; DQ144587; DQ144596; EU522073; KJ410502; KJ803808; EU871976; JQ801491; KJ803779; DQ336674; EU726871; EU726941; GU456678; HQ700468; HQ833469; JF754608; X85274; DQ464165; DQ464166



**57 Protein sequences are covered at 76 % (genotype A: 6; genotype B: 13; genotype C: 15; genotype D: 17; genotype E: 1; unclassified: 5):**

AF090838; AY161143; AY161144; FJ692586; FJ692602; FN545834; AF157022; AF324088; AY269128; D23678; EU522072; EU564822; EU564823; EU564824; FJ386608; JQ801474; JQ801506; KJ803768; KJ803819; AB367420; AF323463; DQ980549; EU916233; EU939596; FJ562248; FJ562250; FJ715392; FJ899768; FJ899770; HM750135; JQ801500; KC774319; KJ410511; KJ803760; AB674428; AY371909; EU726891; FJ349211; GU456644; GU456650; GU456651; GU456672; JF754590; JN040773; JN040819; JN040829; JN642157; KF018182; KF018185; KF584078; KJ470894; AM494791; AB453985; DQ464167; HQ700493; KF192835; KJ470892

**46 Protein sequences are covered at 75 % (genotype A: 4; genotype B: 7; genotype C: 5; genotype D: 22; genotype E: 2; unclassified: 6):**

AB453982; FJ349296; GQ477472; GQ477480; AB365445; EU564825; GQ924625; GQ924648; HM011470; JQ801516; JX026886; DQ089788; EU547562; EU872000; EU872004; KF779327; DQ336675; DQ336676; DQ336677; DQ336678; DQ336679; DQ336685; DQ336687; DQ464174; DQ464176; DQ464177; DQ464178; EU726859; EU726868; EU726960; EU939681; GQ477452; GU456666; JN040779; JN040780; JN040817; JN642167; KF471654; GQ161807; HM363608; FJ023665; FJ882613; FJ882618; GQ161788; GU385774; KM213033

**69 Protein sequences are covered at 74 % (genotype A: 2; genotype B: 14; genotype C: 20; genotype D: 26; genotype E: 1; unclassified: 6):**

JF439915; JF439926; AB073854; AB300371; AB900106; AF480351; AY167093; DQ463790; DQ463794; DQ463796; DQ904357; EF473973; EU939671; FJ562312; GQ924646; JN792900; AB042285; AB670262; EU717215; EU939558; EU939605; FJ023652; FJ715391; KC836842; KJ598663; KJ598664; KJ598666; KJ598668; KJ598669; KJ598670; KJ598673; KJ598674; KJ598676; KJ598677; KJ598678; KJ803823; AB674430; AF419539; AJ627215; AJ627216; AJ627218; AY371917; DQ336690; EU726880; EU726938; EU726944; EU726961; EU726970; GQ184322; GQ477458; GU456684; JF754600; JN040753; JN040776; JN040783; JN040818; JN688712; JN792911; JN792912; KC875342; KF471642; X85261; HM363610; AY161140; EU916228; FJ386586; FJ386635; KJ470897; KJ803822

**40 Protein sequences are covered at 73 % (genotype A: 1; genotype B: 7; genotype C: 9; genotype D: 20; unclassified: 3):**

GQ477500; AB073857; EU158263; EU939677; FJ899785; FJ899787; GQ924639; HM011480; AB014386; AB113878; AB195930; AB195931; AB195932; AB900099; D00630; DQ089768; FJ386617; AB674403; AB674424; AB674431; AF324111; AF419528; AY741798; DQ336689; EU726856; EU726969; FJ349208; GU456643; GU456682; JF754593; JN040812; JN257172; JN257173; JN642146; X80924; X80926; X85276; AB014375; FJ904444; X65259

**50 Protein sequences are covered at 72 % (genotype A: 3; genotype B: 9; genotype C: 14; genotype D: 16; genotype E: 2; unclassified: 6):**

GQ477487; JF439921; JF439935; AB212625; AB241116; AB900107; AF157021; EF473974; FJ386658; FJ562311; GQ924632; KJ803805; AB367392; AB670246; D23682; D23683; FJ386662; FJ562228; FJ562306; GQ475343; GQ475352; GU827639; JQ801480; JQ801518;





JX026880; KJ598665; AB270550; AY236160; DQ336686; DQ464172; DQ464173; DQ486021; FJ904439; JF754592; JF754632; JN040768; JN642135; JN642165; JN688708; JN792908; X80928; X97849; FN594756; FN594762; FJ562223; FJ904400; FJ904430; FJ904442; GQ377592; KJ803827

**14 Protein sequences are covered at 71 % (genotype A: 1; genotype B: 2; genotype C: 4; genotype D: 3; genotype E: 4):**

AF324071; AF324070; GQ924635; AB670272; DQ089772; EU939601; KJ173319; FJ904422; JF754625; X85270; AM494692; AM494787; FN594749; HM363602

**30 Protein sequences are covered at 70 % (genotype A: 3; genotype B: 4; genotype C: 8; genotype D: 11; genotype F: 1; genotype H: 1; unclassified: 2):**

AB116086; AY034878; AY161142; AB073825; AB073843; AF480364; FJ386688; AB014383; AB670298; EU872005; FJ562329; GQ377623; GQ924642; KJ410515; KJ598671; AB555496; AY236164; DQ486022; EU726861; EU726864; FJ904415; GU456642; GU456669; JF754622; JN040771; X85268; EU366132; FJ356715; FJ904408; JN257154

**25 Protein sequences are covered at 69 % (genotype A: 2; genotype B: 11; genotype C: 7; genotype D: 3; genotype E: 1; unclassified: 1):**

AB076679; JF439767; AB205122; AB287321; AB642101; AB900097; AB900110; D50521; D50522; JN792897; JQ027316; KF166001; KJ803775; AB900113; AY206381; FJ386645; FJ787455; FJ904423; GQ377552; GQ377620; EU726975; JN040782; JN642164; AF350117; AY206374

**25 Protein sequences are covered at 68 % (genotype A: 1; genotype B: 8; genotype C: 3; genotype D: 10; unclassified: 3):**

FJ904411; AB010290; DQ463798; EU547563; EU939635; GQ924637; HM011466; JN792899; KC774397; AB074755; AB697502; AY206392; AF419521; DQ329357; EU726979; EU787439; JN040762; JN257153; JN257195; JN642136; JN687947; JX036343; FJ904428; GQ475335; JF754613

**35 Protein sequences are covered at 67 % (genotype A: 1; genotype B: 13; genotype C: 4; genotype D: 7; genotype E: 4; genotype F: 1; genotype H: 1; unclassified: 4):**

GQ477469; AB073841; AB287319; AB287323; AB900105; AY206383; DQ463800; EU939674; FJ386648; FJ899786; FJ899790; FJ899791; JN792898; KM213035; EU939552; GQ475351; KJ410518; KJ598762; AB109478; DQ329356; EU726932; HQ236015; JN040811; JN257165; JN257166; AB274976; AF350211; FN594748; HM363607; KJ638664; AB059659; AB674412; DQ991753; JN642152; KJ803788

**18 Protein sequences are covered at 66 % (genotype A: 2; genotype B: 2; genotype C: 3; genotype D: 7; genotype E: 1; genotype F: 1; unclassified: 2):**

GQ477473; GQ477474; AB073858; AY206391; AY220702; FJ023651; KJ598672; DQ464175; EU726954; EU921418; FJ904410; HQ700467; JF754634; JX036342; EU239220; EF576808; AB674434; FJ904409

**4 Protein sequences are covered at 65 % (genotype D: 3; genotype E: 1):**

EU726884; EU726901; FJ899792; FN594766

**17 Protein sequences are covered at 64 % (genotype B: 3; genotype C: 6; genotype D: 2; genotype E: 2; genotype F: 1; unclassified: 3):**

AB010291; EU522075; EU939678; AB365451; DQ089756; FJ899783; GQ924643; KJ598662; KJ598667; GU456658; JF754626; AM494793; HM363605; AB116654; AY161141; JN040803; KJ598675

**21 Protein sequences are covered at 63 % (genotype A: 1; genotype B: 4; genotype C: 1; genotype D: 12; unclassified: 3):**

AB116088; AB287320; AY800391; AY800392; KJ803816; EU939541; AF043594; AF419527; DQ336691; EU726897; GQ922004; GU456657; GU456675; JF754619; JN040774; JN040830; JN257183; X59795; EU939620; FJ562317; FJ904414

**19 Protein sequences are covered at 62 % (genotype B: 6; genotype C: 4; genotype D: 8; genotype E: 1):**

AY269105; DQ463795; EU579441; FJ562260; JN792902; JQ801494; EU872013; EU939548; JX507211; KJ803776; AB674423; GU456639; GU456674; GU456679; JF754594; JF754611; JF754617; KF471640; AB274977

**10 Protein sequences are covered at 61 % (genotype A: 1; genotype B: 3; genotype C: 1; genotype D: 4; unclassified: 1):**

GQ477476; AB287327; GQ924630; GQ924638; DQ089785; GQ922000; JN642161; KJ470895; L27106; EU939623

**14 Protein sequences are covered at 60 % (genotype B: 6; genotype C: 3; genotype D: 3; genotype E: 2):**

AB900111; DQ993684; EU939661; GQ924641; JN792894; JN792896; AB642095; AB670255; AY167091; AB270542; GQ477453; HQ700439; AB274975; FN594763

**6 Protein sequences are covered at 59 % (genotype B: 1; genotype C: 1; genotype D: 1; genotype E: 2; genotype F: 1):**

AB023682; EU717214; JX036344; FJ349240; HM363599; JQ272888

**10 Protein sequences are covered at 58 % (genotype A: 2; genotype B: 1; genotype C: 1; genotype D: 4; genotype E: 1; genotype H: 1):**

AF419536; AJ627226; AB302095; AB115418; AB674416; AF419522; EU726929; HQ700458; AB274979; AB059660

**8 Protein sequences are covered at 57 % (genotype A: 1; genotype B: 2; genotype D: 2; genotype F: 2; unclassified: 1):**

GU563547; AB900103; KJ803824; AB330367; GU456647; AB116550; AB365453; FJ032343

**6 Protein sequences are covered at 56 % (genotype B: 1; genotype D: 1; genotype E: 3; unclassified: 1):**

AY596112; JN642144; AB219529; GQ161825; KF798305; KF679991

**3 Protein sequences are covered at 55 % (genotype A: 1; genotype D: 1; unclassified: 1):**

AB116092; AF419529; FJ904405

**10 Protein sequences are covered at 54 % (genotype A: 1; genotype B: 6; genotype E: 1; unclassified: 2):**

GQ477477; DQ463787; EU570075; FJ032344; FJ386656; GQ924645; JN792901; HM363598; EF494378; FJ562328

**4 Protein sequences are covered at 53 % (genotype B: 1; genotype D: 2; genotype E: 1):**

EU487257; GQ922005; JF754609; HM363601

**6 Protein sequences are covered at 52 % (genotype B: 4; genotype D: 1; genotype F: 1):**

DQ995804; EU939636; HM011476; KJ803773; JF754612; AB086397

**6 Protein sequences are covered at 51 % (genotype B: 1; genotype C: 3; genotype E: 1; unclassified: 1):**

FJ032342; DQ089775; FJ562335; JQ801523; AB219534; AY230115

**11 Protein sequences are covered at 50 % (genotype A: 7; genotype B: 2; genotype D: 1; genotype E: 1):**

AY230111; AY236165; AY236168; AY236169; DQ298161; DQ298163; DQ298164; AY596111; HM011496; GU456664; HM363611

**1 Protein sequence is covered at 49 % (genotype C: 1):**

KC774240

**3 Protein sequences are covered at 48 % (genotype B: 1; genotype C: 1; genotype D: 1):**

AB073853; JQ801517; GQ477456

**1 Protein sequence is covered at 47 % (unclassified: 1):**

FJ904425

**5 Protein sequences are covered at 46 % (genotype B: 2; genotype C: 2; unclassified: 1):**

AB073847; DQ463799; AB670295; EU939539; KJ803771

**1 Protein sequence is covered at 45 % (genotype A: 1):**

DQ298165

**1 Protein sequence is covered at 44 % (genotype C: 1):**

JQ801508

**1 Protein sequence is covered at 43 % (genotype C: 1):**  
EU939657

**2 Protein sequences are covered at 42 % (genotype B: 1; unclassified: 1):**  
AB287324; FJ349221

**1 Protein sequence is covered at 40 % (unclassified: 1):**  
KC774323

**1 Protein sequence is covered at 39 % (genotype B: 1):**  
EF494382

**1 Protein sequence is covered at 38 % (unclassified: 1):**  
HQ700520

**1 Protein sequence is covered at 37 % (genotype E: 1):**  
EU726953

**1 Protein sequence is covered at 34 % (genotype B: 1):**  
AB287318

**1 Protein sequence is covered at 32 % (genotype A: 1):**  
DQ298162

**1 Protein sequence is covered at 22 % (genotype B: 1):**  
AB287317

**1 Protein sequence is covered at 13 % (genotype C: 1):**  
KC774226