

**Strains of Borrelia covered by PepMix Borrelia (OspA Protein) Ultra – PM-BORR-OSPA-1**

Organism	Uniprot ID	9mer coverage (%)*
Borrelia burgdorferi	OSPA6_BORBG	100
Borrelia burgdorferi	OSPA3_BORBG	100
Borrelia burgdorferi	OSPA4_BORBG	100
Borrelia garinii	Q45195_BORGR	100
Borrelia garinii	Q932R4_BORGR	100
Borrelia burgdorferi	Q44956_BORBG	96,6
Borrelia burgdorferi	Q44974_BORBG	96,6
Borrelia garinii	Q1HLI9_BORGR	94,7
Borrelia burgdorferi	Q44973_BORBG	89,3
Borrelia burgdorferi	Q44936_BORBG	88,3
Borrelia garinii	O54322_BORGR	86,8
Borrelia burgdorferi	Q45039_BORBG	84,2
Borrelia burgdorferi	Q45031_BORBG	81,6
Borrelia garinii	Q45196_BORGR	78,5
Borrelia garinii	Q1HLH2_BORGR	72,8
Borrelia garinii	Q1HLH7_BORGR	70,2
Borrelia garinii	Q840U3_BORGR	65,8
Borrelia garinii	Q1HLH3_BORGR	65,7
Borrelia garinii	Q1HLH9_BORGR	62
Borrelia garinii	Q7WVX6_BORGR	58,6
Borrelia garinii	Q9REH1_BORGR	57,7
Borrelia garinii	P96568_BORGR	54,9
Borrelia garinii	Q1HLH5_BORGR	50,9
Borrelia burgdorferi	OSPA5_BORBG	49,1
Borrelia garinii	Q6RD71_BORGR	47,2
Borrelia garinii	Q840U2_BORGR	45,5
Borrelia garinii	Q6RD72_BORGR	45,3
Borrelia garinii	Q6RD70_BORGR	45,1
Borrelia garinii	Q840T8_BORGR	45,1
Borrelia garinii	Q7WVX7_BORGR	44,2
Borrelia garinii	B2ZBE1_BORGR	43,8
Borrelia garinii	Q1HLH6_BORGR	43,8
Borrelia garinii	B2ZBE6_BORGR	43,2
Borrelia garinii	Q7WVX5_BORGR	42
Borrelia garinii	Q840U4_BORGR	40,8
Borrelia garinii	Q1HLH4_BORGR	38,9
Borrelia garinii	Q83U29_BORGR	38,9
Borrelia garinii	Q1HLI1_BORGR	38,6
Borrelia garinii	Q83U13_BORGR	38,5
Borrelia garinii	Q840T9_BORGR	38,3
Borrelia garinii	Q6RD73_BORGR	37,9
Borrelia burgdorferi	OSPA1_BORBG	37,4



Borrelia garinii	O31374_BORGR	37,1
Borrelia garinii	O31370_BORGR	36,7
Borrelia garinii	O31378_BORGR	35,1
Borrelia garinii	O31376_BORGR	34,3
Borrelia garinii	Q840U1_BORGR	34,1
Borrelia burgdorferi	O54321_BORBG	34
Borrelia burgdorferi	D2Y4L7_BORBG	33,6
Borrelia garinii	O31368_BORGR	33,5
Borrelia burgdorferi	Q44738_BORBG	31,7
Borrelia japonica	Q9R2W5_BORJA	31,7
Borrelia japonica	Q9REH3_BORJA	31,7
Borrelia burgdorferi	A0A076UBU7_BORBG	31,3
Borrelia garinii	O31366_BORGR	31,1
Borrelia burgdorferi	OSPA_BORBU	30,9
Borrelia burgdorferi	E7CVG6_BORBG	30,9
Borrelia burgdorferi	O54324_BORBG	30,9
Borrelia garinii	Q1HLI7_BORGR	30,7
Borrelia garinii	Q840U0_BORGR	30,7
Borrelia burgdorferi (strain N40)	OSPA_BORBN	28,7
Borrelia burgdorferi (strain ZS7)	OSPA_BORBZ	28,3
Borrelia valaisiana	Q9RM88_BORVA	28,3
Borrelia burgdorferi	Q45040_BORBG	27,5
Borrelia garinii	O31372_BORGR	27,3
Borrelia japonica	Q9REH2_BORJA	25,3
Borrelia valaisiana	O83037_BORVA	25,2
Borrelia burgdorferi	Q799S9_BORBG	25,2
Borrelia valaisiana	Q7BS53_BORVA	25,2
Borrelia burgdorferi	Q9R423_BORBG	25,2
Borrelia valaisiana	Q9RQL1_BORVA	25,2
Borrelia valaisiana	Q9R404_BORVA	24,9

\* The peptide pool consists of 15mers, but the coverage was determined by comparison of 9mers from the Uniprot IDs given above.