

S4 New Vaccine targets

Protein	VaxiJen v2.0	Deeploc 2.0 Predicted localizations	Deeploc 2.0 Predicted signals	AllerTOP v. 2.0	NCBI Blastp Canis E-value
SLUP00850	1.0492	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	1,00E-04
SLUP00269	1.0072	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP01393	0.9476	Cell membrane	None	NON-ALLERGEN	>1
SLUP02059	0.9469	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05945	0.9199	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05414	0.9125	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP06322	0.9095	Cell membrane	None	NON-ALLERGEN	>1
SLUP02253	0.8958	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP08294	0.8921	Cell membrane	None	NON-ALLERGEN	>1
SLUP03228	0.8579	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP05767	0.8562	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP01858	0.8533	Cell membrane	None	NON-ALLERGEN	>1
SLUP09148	0.8439	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP01740	0.8382	Cell membrane	None	NON-ALLERGEN	>1
SLUP03939	0.8370	Cell membrane	None	NON-ALLERGEN	>1
SLUP02501	0.8182	Cell membrane, Lysosome/Vacuole	Transmembrane domain	NON-ALLERGEN	>1
SLUP02058	0.8178	Cell membrane	None	NON-ALLERGEN	>1
SLUP02648	0.8113	Cell membrane	None	NON-ALLERGEN	>1

SLUP04006	0.8113	Cell membrane, Endoplasmic reticulum, Lysosome/Vacuole, Golgi apparatus	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP08931	0.7964	Cell membrane, Lysosome/Vacuole, Golgi apparatus	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP02910	0.7921	Cell membrane, Endoplasmic reticulum	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP03731	0.7894	Cell membrane	None	NON-ALLERGEN	>1
SLUP02393	0.7855	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP07642	0.7827	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP08009	0.7799	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05846	0.7744	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP00511	0.7713	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP06975	0.7706	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP08209	0.7645	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP03460	0.7609	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP05880	0.7567	Cell membrane	None	NON-ALLERGEN	>1
SLUP09002	0.7547	Cell membrane	None	NON-ALLERGEN	>1
SLUP07980	0.7488	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP03616	0.7483	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05292	0.7473	Cell membrane, Lysosome/Vacuole	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1

SLUP01078	0.7462	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP01854	0.7451	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP07572	0.7443	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP06642	0.7405	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP08036	0.7394	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP01519	0.7367	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP07844	0.7316	Cell membrane	None	NON-ALLERGEN	>1
SLUP07655	0.7310	Cell membrane, Golgi apparatus	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05108	0.7308	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP03150	0.7296	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP08365	0.7293	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP02104	0.7293	Cell membrane, Lysosome/Vacuole	Transmembrane domain	NON-ALLERGEN	>1
SLUP01403	0.7286	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP01836	0.7260	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP01152	0.7259	Cell membrane	None	NON-ALLERGEN	>1
SLUP01829	0.7240	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05309	0.7216	Cell membrane	None	NON-ALLERGEN	>1
SLUP03765	0.7174	Cell membrane	None	NON-ALLERGEN	>1
SLUP03324	0.7167	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	1,00E-05
SLUP00848	0.7159	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP04639	0.7114	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP08417	0.7113	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP05304	0.7113	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1

SLUP05422	0.7104	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP02314	0.7088	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP02688	0.7075	Cell membrane	Transmembrane domain	NON-ALLERGEN	>1
SLUP04389	0.7071	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP06851	0.7065	Cell membrane	None	NON-ALLERGEN	>1
SLUP06232	0.7059	Cell membrane	Transmembrane domain	NON-ALLERGEN	6,00E-05
SLUP01361	0.7033	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	>1
SLUP03421	0.7012	Cell membrane	None	NON-ALLERGEN	>1
SLUP05973	0.7002	Cell membrane	Signal peptide, Transmembrane domain	NON-ALLERGEN	1,00E-05