Class: SARS-CoV U274

Attributes: (1)

Accession #: NP_828852
Synonyms: Orf 3a
Molecular weight: unknown
Number of amino acids: 274
Structure:
-N terminus faces the extracellular matrix
-C terminus faces the cytoplasm
-topology is predicted to have three transmembrane domains (not proven)
Location:
-localized to perinuclear region as well as to plasma membrane
-deletion of cytoplasmic domain containing Yxxϕ and diacidic motifs abolished transport to the cell surface
Functions:
-when on cell surface it has the ability to internalize antibodies
-can undergo endocytosis
-may play a role in viral assembly and/or release of virus from infected cells

Responsibilities:	**Collaborators:**
Functional consequence unknown	S protein (1)
Functional consequence unknown	E protein (1)
Functional consequence unknown	M protein(1)
Functional consequence unknown	U122 (1)
Functional consequence unknown	caveolin-1 (2)

1) Tan, Y.J., et al., (2004) A novel severe acute respiratory syndrome coronavirus protein, U274, is transported to the cell surface and undergoes endocytosis, *J Virol*, **78(13),** 6723-34.
2) Cai, Q.C., et al., (2003) Putative caveolin-binding sites in SARS-CoV proteins, *Acta Pharmacol Sin*, **24(10),** 1051-9.