

### Product datasheet for TP310966

#### OriGene Technologies, Inc.

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## Semaphorin 7a (SEMA7A) (NM\_003612) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human semaphorin 7A, GPI membrane anchor (John Milton Hagen

blood group) (SEMA7A), 20 µg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC210966 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MTPPPPGRAAPSAPRARVPGPPARLGLPLRLLLLLWAAAASAQGHLRSGPRIFAVWKGHVGQDRVDFG QTEPHTVLFHEPGSSSVWVGGRGKVYLFDFPEGKNASVRTVNIGSTKGSCLDKRDCENYITLLERRSEGL LACGTNARHPSCWNLVNGTVVPLGEMRGYAPFSPDENSLVLFEGDEVYSTIRKQEYNGKIPRFRRIRGES ELYTSDTVMQNPQFIKATIVHQDQAYDDKIYYFFREDNPDKNPEAPLNVSRVAQLCRGDQGGESSLSVSK WNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGQWRDTRVYGVFSNPWNYSAVCVYSLGDIDKVFRTSS LKGYHSSLPNPRPGKCLPDQQPIPTETFQVADRHPEVAQRVEPMGPLKTPLFHSKYHYQKVAVHRMQASH GETFHVLYLTTDRGTIHKVVEPGEQEHSFAFNIMEIQPFRRAAAIQTMSLDAERRKLYVSSQWEVSQVPL DLCEVYGGGCHGCLMSRDPYCGWDQGRCISIYSSERSVLQSINPAEPHKECPNPKPDKAPLQKVSLAPNS RYYLSCPMESRHATYSWRHKENVEQSCEPGHQSPNCILFIENLTAQQYGHYFCEAQEGSYFREAQHWQLL

PEDGIMAEHLLGHACALAASLWLGVLPTLTLGLLVH

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK
Predicted MW: 70.3 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.





#### Semaphorin 7a (SEMA7A) (NM\_003612) Human Recombinant Protein - TP310966

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 003603

 Locus ID:
 8482

 UniProt ID:
 075326

 RefSeq Size:
 3393

 Cytogenetics:
 15q24.1

 RefSeq ORF:
 1998

Synonyms: CD108; CDw108; H-SEMA-K1; H-Sema-L; JMH; SEMAK1; SEMAL

**Summary:** This gene encodes a member of the semaphorin family of proteins. The encoded

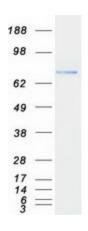
preproprotein is proteolytically processed to generate the mature glycosylphosphatidylinositol

(GPI)-anchored membrane glycoprotein. The encoded protein is found on activated lymphocytes and erythrocytes and may be involved in immunomodulatory and neuronal processes. The encoded protein carries the John Milton Hagen (JMH) blood group antigens. Mutations in this gene may be associated with reduced bone mineral density (BMD). Alternative splicing results in multiple transcript variants, at least one of which encodes an

isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

**Protein Pathways:** Axon guidance

# **Product images:**



Coomassie blue staining of purified SEMA7A protein (Cat# TP310966). The protein was produced from HEK293T cells transfected with SEMA7A cDNA clone (Cat# [RC210966]) using MegaTran 2.0 (Cat# [TT210002]).