

Product datasheet for **RG217352**

SEMA6A (NM_020796) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: SEMA6A (NM_020796) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: SEMA6A
 Synonyms: HT018; SEMA; SEMA6A1; SEMAQ; VIA
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 Restriction Sites: SgfI-MluI
 Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_020796
 ORF Size: 3090 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_020796.5](#)

RefSeq Size: 6860 bp

RefSeq ORF: 3093 bp

Locus ID: 57556

UniProt ID: [Q9H2E6](#)

Cytogenetics: 5q23.1

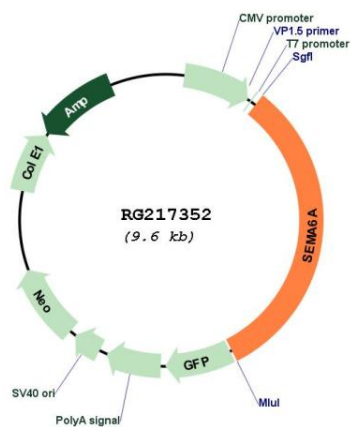
Domains: Sema

Protein Families: Transmembrane

Protein Pathways: Axon guidance

Gene Summary: The transmembrane semaphorin SEMA6A is expressed in developing neural tissue and is required for proper development of the thalamocortical projection (Leighton et al., 2001 [PubMed 11242070]).[supplied by OMIM, Feb 2011]

Product images:



Circular map for RG217352