

Product datasheet for **RG239473**

Semaphorin 3B (SEMA3B) (NM_001290060) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3B (SEMA3B) (NM_001290060) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Semaphorin 3B
Synonyms:	LUCA-1; SemA; SEMA5; SEMAA; semaV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239473 representing NM_001290060.
 Blue=ORF Red=Cloning site Green=Tag(s)

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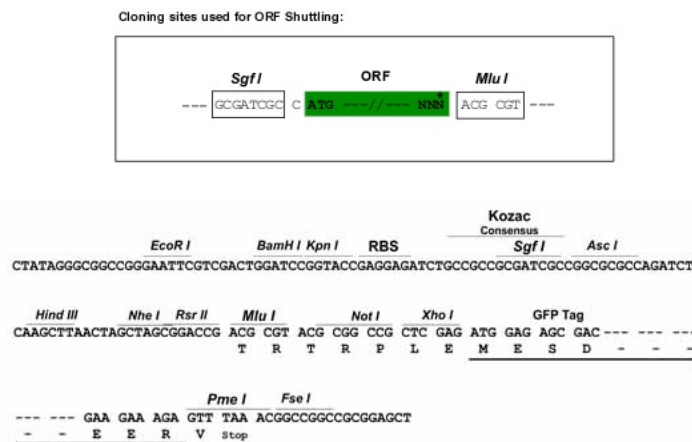
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CCTGCGCTGAGCGGGGGCCGCGCAGCGCAACGCACTGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239473
 Blue=ORF Red=Cloning site Green=Tag(s)

MGRAGAAAVIPGLALLWAVGLGSAAPSPRLRLSFQELQAWHGLQTFSLERTCCYQALLVDEERGRLFV
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290060

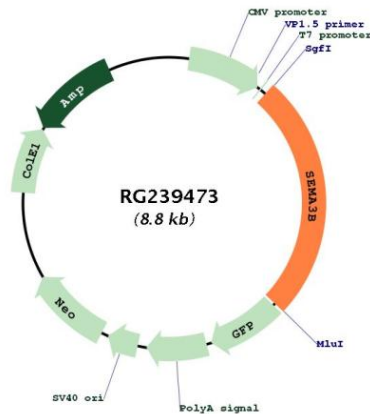
ORF Size: 2247 bp

OTI Disclaimer: 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).
RefSeq:	NM_001290060.2
RefSeq Size:	2981 bp
RefSeq ORF:	2250 bp
Locus ID:	7869
UniProt ID:	Q13214
Cytogenetics:	3p21.31
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
MW:	83.1 kDa
Gene Summary:	The protein encoded by this gene belongs to the class-3 semaphorin/collapsin family, whose members function in growth cone guidance during neuronal development. This family member inhibits axonal extension and has been shown to act as a tumor suppressor by inducing apoptosis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RG239473