

## Product datasheet for **RG217534**

### SEMA6C (NM\_030913) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6C (NM_030913) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEMA6C
Synonyms:	m-SemaY; m-SemaY2; SEMAY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217534 representing NM\_030913  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCGTGCCCCCACTTTCATGCCCTTGTCTGCTACTGCTGCTGCTGCTCTCACTTCCCCATACTCAGG  
 CCGCCTTTCCCCAGGACCCCTCCTCTGTTGATCTCTGACCTTCAAGGTAAGTCTCCCAATTATCCTGGTT  
 TCGGGGCTGGAGGATGATGCTGTGGCTGCAGAACTTGGGCTGGACTTTCAGAGATTCTGACCTTGAAC  
 CGGACCTTGTAGTGGCTGCCGGGATCACGTTTTCTCCTTCGATCTTCAAGCCGAAGAAGAAGGGGAGG  
 GGCTGGTGCCCAACAAGTATCTAACATGGAGAAGCAAGATGTGGAGAAGTGTGCTGTACGGGAAAGCT  
 GACGGATGAGTGTACAATAATTCGTGTTCTTGTTCCTGGGACTCCCAGACGCTCCTTGCTGTGGA  
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 AGGAGTCTGGATGGGGCTGGACTCCTGTGCTGAGGACAGAGTCCCTCACCCAGGCCAGGATCCTGTG  
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 GCTCCCGGCTGGGCTCGGGGAGGCCGAGGTTGCCTTTCTCCGGCCACGGGCCCCCTGCCCTGC  
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 CCTCCCTCGTCGGGCCCTCTCCCGCCAGGCCGTCCGAACGGCGGCCGTTCAACTTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG217534 representing NM\_030913  
 Red=Cloning site Green=Tags(s)

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MPRAPHFMPLLLLLLLLLSLPHTQAAFPQDPLPLLI SDLQGT SPLSWFRGLEDDAVAAELGLDFQRF LTLN
RTLLVAARDHVSFDLQAE EGEGLVPNKYL TWRSQDVENCAVRGKL TDECYNI RVLVPWDSQTL LACG
TNSFSPVCRSYGITSLQQE GEEELSGQARCPFDATQSNVAIFAEGSLYSATAADFQASDAVYRSLGPQP
LRS AKYDSKWLREPHFVQALEHGDHVVFFREVSVEDARLGRVQFSRVARVCKRDMGGS PRALDRHWT SF
LKLRLNCSVPGDSTFYFDVLQAL TGPVNLHGRSALFGVFTTQNSIPGS AVCAFYLDEIERGFEGKFKEQ
RSLDGAWTPVSEDRVPSRPGSCAGVGG AALFSSSRDL PDDVLT FIKAHPLLDPAVPPVTHQPL LTLTSR
ALLTQVAVDGMAGPHSNITVMFLGSNDGT VLKVLTPGGRSGGPEPILLEEIDAYS PARCSGKRTAQTARR
IIGLELDTEGHR L FVA FSGCIVYLPLSRCARHGACQRSC LASQDPYCGWHSSRGCVDIRGSGGTDVDQAG
NQESMEHGDCQD GATGSQSGPGDSAYGVRRDLPPASASRSVPI P LLLASVAAAFALGASV SGLLVSCACR
RAHRRRGKDIETPGLPRPLSLRSLARLHGGGPEPPPPSKDGD AVQTPQLYTTFLPPPEGVPPPELACLPT
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LRYLHGPQPPRKA EPPAPLTSRALPPEPAPALLGGPSRPH ECASPLRLDVPPEGRCASAPARPAL SAP
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TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

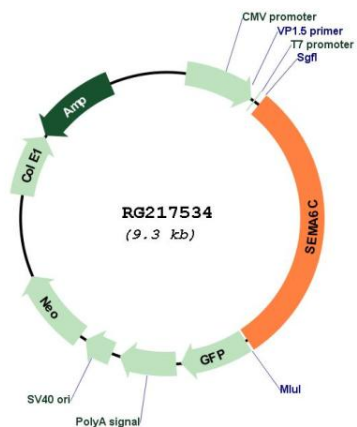
**Cloning Scheme:**



**ACCN:** NM\_030913

<b>ORF Size:</b>	3925 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030913.6</a>
<b>RefSeq Size:</b>	3901 bp
<b>RefSeq ORF:</b>	2793 bp
<b>Locus ID:</b>	10500
<b>UniProt ID:</b>	<a href="#">Q9H3T2</a>
<b>Cytogenetics:</b>	1q21.3
<b>Domains:</b>	Sema
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	This gene encodes a member of the semaphorin family. Semaphorins represent important molecular signals controlling multiple aspects of the cellular response that follows CNS injury, and thus may play an important role in neural regeneration. [provided by RefSeq, May 2010]

Product images:



Circular map for RG217534