

Product datasheet for **RG230584**

SEMA6C (NM_001178062) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6C (NM_001178062) 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:

>RG230584 representing NM_001178062
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCGTGCCCCCACTTTCATGCCCTTGTCTGCTACTGCTGCTGCTGCTCTCACTTCCCCATACTCAGG
 CCGCCTTTCCCCAGGACCCCTCCCTCTGTTGATCTCTGACCTTCAAGGTAAGTCTCCCAATTATCCTGGTT
 TCGGGGCTGGAGGATGATGCTGTGGCTGCAGAACTTGGGCTGGACTTTCAGAGATTCTGACCTTGAAC
 CGGACCTTGTAGTGGCTGCCGGGATCACGTTTTCTCCTTCGATCTTCAAGCCGAAGAAGAAGGGGAGG
 GGCTGGTGCCAACAAGTATCTAACATGGAGAAGCAAGATGTGGAGAAGTGTGCTGTACGGGAAAGCT
 GACGGATGAGTGTACAATAATTCGTGTTCTTGTTCCTGGGACTCCCAGACGCTCCTTGCTGTGGA
 ACGAACTATTACGCCCTGTGTCCGACGATATGGGATAACTTCGCTGCAGCAGGAGGGTGAAGAACTGA
 GTGGCAGGCTCGATGCCCTTTGATGCCACCCAGTCCAACGTGGCCATCTTTCAGAGCCACACTTTGT
 CCAGGCCCTGGAGCATGGAGACCATGTCTACTTCTTCCGCGAGGTCTCTGTGGAGGATGCTCGGCTG
 GGGAGGGTGCAGTTCTCCCGGTAGCCCGAGTATGTAACGTGACATGGGCGGCTCGCCTCGGGCCTTGG
 ACCGCCACTGGACATCCTTCTGAAGCTTCGGCTCAACTGCTCTGTCCCTGGGGACTCTACTTTCTATTT
 TGATGTTTTACAGGCCTTGAAGTGGCCTGTGAACCTGCATGGCCGCTCTGCTCTCTTTGGGGTCTTACC
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 GATGCTCTGACCTTCAAGGCTCACCCGCTGCTGGACCCGCTGTACCACTGTACCCATCAGCCTC
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 CATCACAGTCATGTTCTTGGCTCCAATGATGGGACAGTCTGAAGGTGCTGACCCAGGTGGGCGATCC
 GGGGGACCTGAGCCCATCCTCCTGGAAGAGATTGATGCCTACAGCCCTGCCCGGTGCAGTGGGAAGCGGA
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 TCAGTCTGGCCCTGGGGATTCTGCTTATGTGCTCCGGGTCTGGCCCTTCCCCTGGGACCCCACTCCT
 CCCAGTGTGCCACCCCGGCCAGTCTTCCACTTTGGAGTTCACACTCGGGCGTGGCCGGGAC
 TGCCCCAGCCTCGGCCTCCCGCTCCGTCGCCATCCCACTCCTCCTGGCCAGTGTGGCCGAGCTTTTGC
 CCTGGGCGCCTCAGTCTCTGGCCTCCTGGTCTCCTGTGCTTGTGCGCCGCGCCACCAGCTCGGGGCAAG
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 GGCCGGAGGTTGCCTTTCTCCGGCCACCGGGCCCCCTGCCCTGCTCACTCGAGTCCCCTCGGAGGTC
 CCTCCAGTACTCCGGGGTCCCGGAAGCACCTCCTGTACTGGCCGGCCGAGGGCTACCGGGGCCG
 CGCCTGAAAAGGGTGGAGTCGAGAAGCCCAAGTTGTCCCTGAAGCCTCCCTCGTGGGCCCTCTCC
 CGCCAGGCGTCCCAACGGCGCGCTTCAACTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG230584 representing NM_001178062
 Red=Cloning site Green=Tags(s)

MPRAPHFMPLLLLLLLLSLPHTQAAFQDPLPLLISDLQGTSPLSWFRGLEDDAVAAELGLDFQRFLTLN
 RTLLVAARDHVSFDLQAEEEGELVPNKYL TWRSQDVENCAVRGKLTDECYNYIRVLVPWDSQTLACG
 TNSFSPVCRSYGITSLQQEGEELSGQARCPFDATQSNVAIFAEPHFVQALEHGDHVVYFFREVSVEDARL
 GRVQFSRVARVCKRDMGGSPRALDRHWTSFLKLRNLNCSVPGDSTFYFDVLQALTGPVNLHGRSALFGVFT
 TQTNSIPGSAVCAFYLDEIERGFEGKFKEQSRSLDGAWTPVSEDRVPSRPGSCAGVGAALFSSSRDLPD
 DVLTFIKAHPLLDPAVPPVTHQPLLTLTSRALLTQVAVDGMAGPHSNITVMFLGSNDGTVLKVLTPGGRS
 GGPEPILLEEIDAYSPARCSGKRTAQTARRIIGLELDTEGHRFLVAFSGCIVYLPLSRCARHGACQRSL
 ASQDPYCGWHSSRGCVDIRGSGGTDVDQAGNQESMEHGDCQDGATGSQSGPGDSAAYVLPGPSPGTPSP
 PSDAHPRPQSSTLGVHTRGVRRDLPPASASRSVPIPLLLASVAAAFALGASVSGLLVSCACRRAHRRRGK
 DIETPGLPRPLSLRSLARLHGGGPEPPPPSKDGDVQTPQLYTTFLPPEGVPPPELACLPTPESTPELP
 VKHLRAAGDPWEWNQNRNNAKEGPGRSRGGHAAGGPAPRVLVRPPPGCPGQAVEVTTLEELLRYLHGPQ
 PPRKGAEPPAPLTSRALPPEPAPALLGGPSRPHCASPLRLDVPPEGRCASAPARPALSAPAPRLGVGG
 GRRLPFSGHRAPPALLTRVPSGGPSRYSGGPGKHLLYLGRPEGYRGRALKRVDVEKPLSLKPPLVGPSS
 RQAVPNGGRFNF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

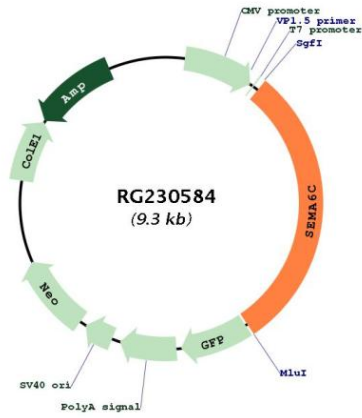
Cloning Scheme:



ACCN: NM_001178062

ORF Size:	2766 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).
Reconstitution Method:	<ol style="list-style-type: none">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_001178062.2
RefSeq Size:	3904 bp
RefSeq ORF:	2769 bp
Locus ID:	10500
UniProt ID:	Q9H3T2
Cytogenetics:	1q21.3
Protein Pathways:	Axon guidance
Gene Summary:	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 RG230584