

Product datasheet for MC201568

Scg5 (NM_009162) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scg5 (NM_009162) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scg5
Synonyms:	7B2; AI325031; Sgne-1; Sgne1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC029021 sequence for NM_009162 GTGACGCAGGAGCTATCCAGCACGTCAAGCTCCCTGTTTTGGCCTAGATTGCAAGAAGCTCGCCCGCGGCC ACACGGTTAAAAATGGCCTCAAGGCTGGTCTCTGCTATGCTATCTGGCCTTTTGTGTTTGGTTGATGTTTG AGTGGAATCCAGCATTGCTTATAGTCCACGGACCCCTGACCGGTCTCAGAGACAGACATCCAGAGGCT GCTTCATGGGGTTATGGAGCAGCTGGGCATTGCCAGGCCACGCGTGAGTACCCGGCTCACCAGGCCATG AATCTTGTTGGGCCACAGAGCATCGAAGGGGGAGCTCACGAGGGTCTTCAGCATCTGGGTCCTTTTGGCA ACATCCCCAACATAGTGGCAGAGTTGACTGGTGACAACATTCTAAGGACTTCAGTGAGGATCAAGGCTA CCCAGACCCTCCAAATCCCTGTCCTCTTGGGAAAAGTCTGATGATGGATGTCTAGAAAACGCCCCGAC ACTGCAGAGTTTCAGCCGAGAATCCAGTTAGACCAGCACCTTTTGTATCCAGAACATGACTACCCAGGTT TGGGCAAGTGGAACAAGAACTCCTTTATGAGAAAATGAAGGGAGGACAGAGGCGGAAGCGGAGGAGTGT CAATCCCTATCTACAAGGAAAGAGGTTGGACAATGTTGTGGCAAAGAAATCTGTCCCCACTTCTCAGAA GAGGAGAAGGAAGCAGAAATAAGAGAAGACAGTATGTAGAAACCCATCCAATGCTTATGTGCATGTTTCAT AGAGCCCCGTGAGTGACAGCATGCATTTTACATATTTATGGATGAAAAGCAGCTGTCTTGCTCCATACC AATGCCTGTGCTTTCTGTACATTAGAATAAAGCTCCTTCTCTTTGGGGGATTTTTTGTGTTGGATCT GCAAGAAACATTACAATTAATGTATATGTCAAGTATAATAAAACACGGATATGAAATACTCAGAAAA AAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_009162
Insert Size:	639 bp


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OTI Disclaimer:	<p>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.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC029021 , AAH29021
RefSeq Size:	1002 bp
RefSeq ORF:	639 bp
Locus ID:	20394
UniProt ID:	P12961
Cytogenetics:	2 57.45 cM
Gene Summary:	Acts as a molecular chaperone for PCSK2/PC2, preventing its premature activation in the regulated secretory pathway. Binds to inactive PCSK2 in the endoplasmic reticulum and facilitates its transport from there to later compartments of the secretory pathway where it is proteolytically matured and activated. Also required for cleavage of PCSK2 but does not appear to be involved in its folding. Plays a role in regulating pituitary hormone secretion. The C-terminal peptide inhibits PCSK2 in vitro.[UniProtKB/Swiss-Prot Function]