

## Product datasheet for **MG222006**

### **Pcsk5 (NM\_001190483) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcsk5 (NM_001190483) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcsk5
Synonyms:	b2b585C; b2b585Clo; b2b1549C; b2b1549Clo; PC; PC5; PC5/; PC6; SP; SPC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222006 representing NM_001190483 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTGGGACTGGGGAAACCGCTGCAGCCGCCGGGACGGCGGGACCTGCTGTGCGTCTGGCACTGC  
TCGCCGGTGTCTGCTCCCGGTATGCCGGACGCGCGTCTACACCAACCACTGGGCAGTGAAGATCGCCGG  
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TACAAAGCCTCAGGCTGCTCGGATAATCCCAACCATCACGTCAATTACCTGGAGCATGTAGTTGTGCGTA  
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222006 representing NM\_001190483

Red=Cloning site Green=Tags(s)

MDWDWGNRCSRPRRRLLCVLALLAGCLLPVCRTRVYTNHWAVKIAGGFAEADRIASKYGFINVQIGAL  
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 ENKHGTRCAGEVAATANNSHCTVGIAFNAKIGGVRMLDGDVDMVEAKSVSYNPQHVIHSASWGPDDDG  
 KTVDPAPLTRQAFENGVRMRRGLGSFVWASGNNGRSKDHCSGDYNTSIYTISSIAESGKPPWYL  
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 VHDVCTAPKECAAVEYWDEGSHRCQPCHKKCSRCSPSEDQCYTCPRETFLLNNTCVKECPEGYHTDKDS  
 QQCVLCHSSCRTCEGPHSMQCLSCRPGWFQLGKECLLQCRDGYGESTSGRCEKDKSCKSCRGRPTDC  
 QSCDTFFLLRSKGQCHRACPEHYADQHAQT CERCHPTCDKCSGKEAWSCLSCVWSYHLLKGICIEPCI  
 VGEYREGKGENFNCKKCHESMECKGPGSKNCTGCSAGLLLDMDNRCLHCCNASHSRRSQDCCDCQSST  
 DECILPAREAEFYEHKTKALLVTSGAMLLLLGAAAVVWRKSRSRPVAKGRYEKLAEPVSYSSYRSSL  
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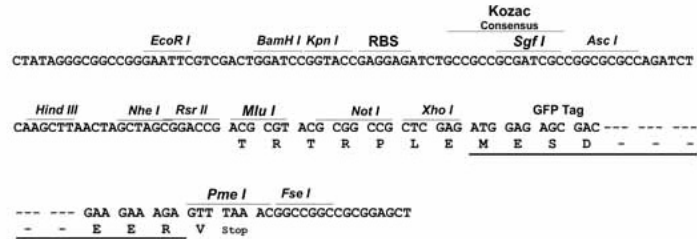
TRTRPLE - GFP Tag - V

**Restriction Sites:**

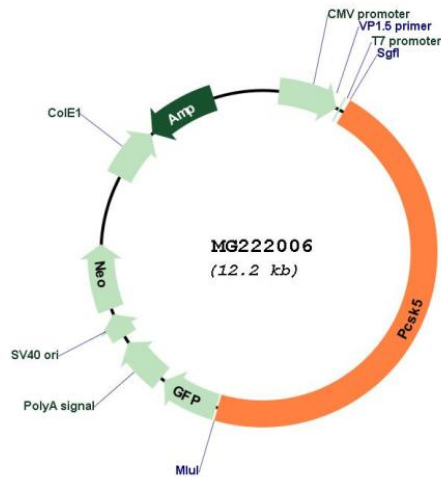
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



ACCN: NM\_001190483  
 ORF Size: 5631 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_001190483.2</a> , <a href="#">NP_001177412.1</a>
<b>RefSeq Size:</b>	6675 bp
<b>RefSeq ORF:</b>	5634 bp
<b>Locus ID:</b>	18552
<b>UniProt ID:</b>	<a href="#">Q04592</a>
<b>Cytogenetics:</b>	19 12.86 cM
<b>Gene Summary:</b>	This gene encodes a subtilisin-like proprotein convertase that mediates posttranslational endoproteolytic processing of various proprotein substrates traversing the secretory pathway. The encoded protein is an inactive zymogen that undergoes autoproteolytic processing in the endoplasmic reticulum and the Golgi network to generate an active enzyme. Mice lacking the encoded protein die at an early embryonic stage. Conditional inactivation this gene in the epiblast but not in the extraembryonic tissue bypasses embryonic lethality but results in death at birth. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2015]