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Product datasheet for RG203896

PCSK7 (NM_004716) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCSK7 (NM_004716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCSK7
Synonyms:	LPC; PC7; PC8; SPC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG203896 representing NM_004716
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAAGGGGAGGCAGAAAGTGCCACACTTGGATGCCCCCCTGGGCCTGCCCACCTGCCTCTGGCTGG
AATTAGCCGGGCTCTTCTTACTGGTTCCCTGGGTCATGGGCCTGGCAGGGACAGGTGGGCCTGATGGCCA
GGGCACAGGGGGGCCGAGCTGGGCTGTGCACCTGGAAAGCCTGGAAGGTGACGGGGAGGAAGAGACTCTG
GAGCAGCAGGCGGATGCCTTGGCCCAGGCAGCAGGGCTGGTGAATGCTGGACGCATCGGAGAGCTTCAGG
GGCACTACCTCTTTGTCCAGCCTGCTGGGCACAGGCCGGCCCTGGAGGTGGAGGCCATCCGGCAGCAGGT
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CGCAGCGTCCACTTCAACGACCCCAAGTACCCGCAGCAATGGCACCTGAATAACCGACGGAGCCCGGGCA
GGGACATCAACGTGACGGGTGTGTGGGAACGCAATGTGACTGGGCGAGGGGTGACGGTGGTGGTAGTGGA
TGACGGAGTGGAACACACCATCCAGGACATTGCACCCAACTATAGCCCTGAGGGTAGCTATGACCTCAAC
TCTAATGACCCTGACCCCATGCCCCACCCGGATGTGGAGAATGGCAACCACCATGGCACGCGATGTGCAG
GAGAGATCGCGGCTGTGCCCAACAACAGCTTCTGTGCCGTGGGCGTGGCCTACGGGAGCCGCATCGCAGG
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TGGCAACGGAGGCCAACACAACGACAACTGCAACTACGATGGCTACGCCAACTCCATCTACACCGTCACC
ATAGGAGCTGTGGATGAGGAGGGACGCATGCCTTTCTATGCAGAAGAATGTGCCTCCATGCTGGCAGTCA
CCTTCAGTGGTGGGGACAAGATGCTTCGGAGCATTGTGACCACTGACTGGGACCTTCAGAAGGGCACTGG
CTGCACTGAGGGCCACACAGGGACCTCAGCTGCAGCGCCTCTGGCAGCTGGCATGATAGCCTTAATGCTG
CAGGTGCGGCCCTGCCTCACGTGGCGTGACGTCCAGCACATCATTGTCTTCACAGCCACCCGGTATGAGG
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CTGGACTGTTTACTACATGCTGGAAGTATATTTGAGCCAGAGGAATGTGGCTTCCAATCAAGTTTGTAGG
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CACTTTGCAGCAGCAAGGATCCAGACGAAGTGGAAACAGAGAGCAGGGGCCCTCCCACCACCTCTGACCT
CCTTGCCCCAGACCTGCTGGAGCAAGGGGACTGGAGCCTGTCCCAGAACAAGAGCGCCCTGGACTGCCCT
CATCAGCACCTAGACGTACCGCACGGGAAGGAGGAGCAGATCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

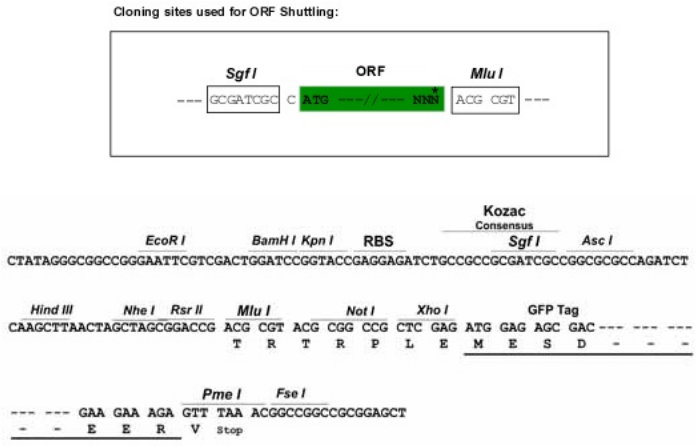
>RG203896 representing NM_004716
Red=Cloning site Green=Tags(s)

MPKGRQKVPHLDAPLGLPTCLWLELAGLFLLVPWVMGLAGTGGPDGQGTGGPSWAVHLESLEGDGEEETL
EQQADALAQAAGLVNAGRIGELQGHYLFVQPAGHRPALEVEAIRQQVEAVLAGHEAVRWHSEQRLLRRAK
RSVHFNDPKYPQQWHLNNRRSPGRDINVTGVWERNVTGRGVTVVVVDDGVEHTIQDIAPNYSPEGSYDLN
SNDPDPMPHPDVENGNHHGTRCAGEIAAVPNNSFCAVGVAYGSRIAGIRVLDGPLTDSMEAVAFNKHYQI
NDIYSCSWGPDDDGKTVDGPHQLGKAALQHGVIAGRQGFGSIFVVASGNGGQHNDNCNYDGYANSIYTVT
IGAVDEEGRMPFYAEECASMLAVTFSGGDKMLRSIVTTDWDLQKGTGCTEGHTGTSAAAPLAAGMIALML
QVRPCLTWRDVQHIIVFTATRYEDRRAEWVTNEAGFSHSHQHGFGLLNAWRLVNAAKIWTSVPYLASYVS
PVLKENKAIPQSPRSLEVLWNVSRMDLEMSGLKTLEHVAVTVSITHPRRGSLELKLFCPSGMMSLIGAPR
SMDSDPNGFNDWTFSTVRCWGERARGTYRLVIRDVGDESFQVGILRQWQLTLYGSVWSAVDIRDRQRLLE
SAMSGKYLHDDFALPCPPGLKIPEEDGYTITPNTLKTLVLVGCFTVFWTVYYMLEVYLSQRNVASNQVCR
SGPCHWPHRSRKAKEEGTELESVPLCSSKDPDEVETESRGPPTTSDLLAPDLLEQGDWSLSQNKSALDCP
HQHLDVPHGKEEQIC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004716

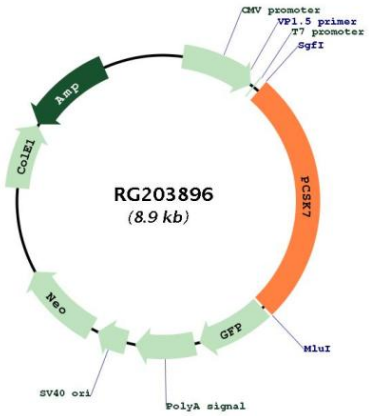
ORF Size: 2355 bp

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:	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_004716.4
RefSeq Size:	3497 bp
RefSeq ORF:	2358 bp
Locus ID:	9159
UniProt ID:	Q16549
Cytogenetics:	11q23.3
Domains:	Peptidase_S8, P_proprotein
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. It encodes a type 1 membrane bound protease that is expressed in many tissues, including neuroendocrine, liver, gut, and brain. The encoded protein undergoes an initial autocatalytic processing event in the ER and then sorts to the trans-Golgi network through endosomes where a second autocatalytic event takes place and the catalytic activity is acquired. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It can process proalbumin and is thought to be responsible for the activation of HIV envelope glycoproteins gp160 and gp140. This gene has been implicated in the transcriptional regulation of housekeeping genes and plays a role in the regulation of iron metabolism. A t(11;14)(q23;q32) chromosome translocation associated with B-cell lymphoma occurs between this gene and its inverted counterpart. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RG203896