

Product datasheet for **RC200627**

SC5DL (SC5D) (NM_001024956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SC5DL (SC5D) (NM_001024956) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SC5DL
Synonyms:	ERG3; S5DES; SC5DL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200627 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGATCTTGACTCCGTGTTGCAGATTACTATTTTTTTACACCATACGTGTATCCAGCCACATGGCCAG
AAGATGACATCTCCGACAAGCTATTAGTCTTCTGATTGTAACAAATGTTGGTGCTTACATCCTTTATTT
CTTCTGTGCAACTGAGCTATTATTTTGTCTTCGATCATGCATTAATGAAACATCCACAATTTTTAAAG
AATCAAGTCCGTCGAGAGATTAAGTTTACTGTCCAGGCATTGCCATGGATAAGTATTCTTACTGTTGCAC
TGTTCTTGCTGGAGATAAGAGGTTACAGCAAATTACATGATGACCTAGGAGAGTTCCATATGGATTGTT
TGAACCTGTCGTTAGTATAATATCTTTCCCTCTTTTCACTGACATGTTCACTACTGGATTACAGAGGC
CTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATTCCTACTCCATTTG
CAAGTCATGCTTTTACCCTATTGATGGCTTTCTCAGAGTCTACCTTACCATATATACCCTTTTATCTT
TCCATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTGGTTAATATCTGGACAATTTCCATTCATGAC
GGTATTTTCTGTGCCCAATCTTACAGCCATTTAATGGCTCAGCTCATCATACAGACCACCATA
TGTTCTTTGACTATAATTATGGACAATTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCC
TTCATCCTTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAGCGCAGCAGCCAT
TCAGGAAATGGCTGTAAGAATGAAAAATTATCAATGGAGAGTTTACAAAGACTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200627 protein sequence
Red=Cloning site Green=Tags(s)

MDLVLRVADYYFFTPYVYPATWPEDDIFRQAISLLIVTNVGAYILYFFCATLSYYVFDHALMKHPQFLK
 NQVRREIKFTVQALPWISILTVALFLEIRGYSKLHDDLGEFPYGLFELVVSIIISLFFFTDMFIYWIHRG
 LHHRLVYKRLHKPHHIWKIPTPFASHAFHPIDGFLQSLPHYIYPFIFPLHKVVYLSLYILVNIWTISIHD
 GDFRVPQILQPFINGSAHHTDHHMFFDYNYGQYFTLWDRIGGSFKNPSSFEKGKPLSYVKEMTEGKRSSH
 SGNCGCKNEKLFNGEFTKTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6105_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001024956

ORF Size: 897 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001024956.2](#), [NP_001020127.1](#)

RefSeq Size: 7019 bp

RefSeq ORF: 900 bp

Locus ID: 6309

UniProt ID: [O75845](#)

Cytogenetics: 11q23.3-q24.1

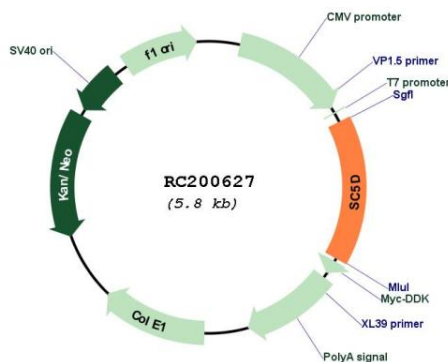
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Steroid biosynthesis

MW: 35.3 kDa

Gene Summary: This gene encodes an enzyme of cholesterol biosynthesis. The encoded protein catalyzes the conversion of lathosterol into 7-dehydrocholesterol. Mutations in this gene have been associated with lathosterolosis. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200627