

Product datasheet for SC302326

SC5DL (SC5D) (NM_001024956) Human Untagged Clone

Product data:

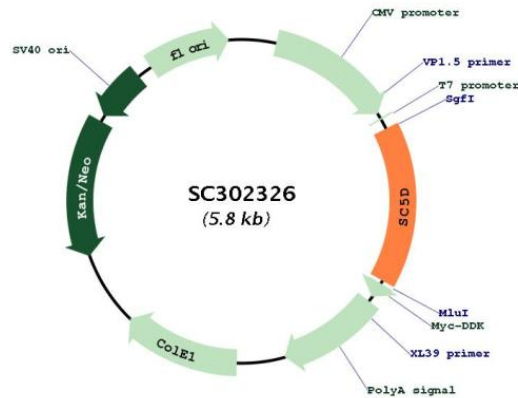
Product Type:	Expression Plasmids
Product Name:	SC5DL (SC5D) (NM_001024956) Human Untagged Clone
Tag:	Tag Free
Symbol:	SC5D
Synonyms:	ERG3; S5DES; SC5DL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302326 representing NM_001024956. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCTTGTACTCCGTGTTGCAGATTACTATTTTTTTACACCATACGTGTATCCAGCCACATGGCCA
GAAGATGACATCTCCGACAAGCTATTAGTCTTCTGATTGTAACAAATGTTGGTGCTTACATCCTTTAT
TTCTTCTGTGCAACTGAGCTATTATTTTGTCTTCGATCATGCATTAATGAAACATCCACAATTTTA
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AGAGGCCTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATTCCTACT
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ATTCATGACGGTGATTTTCGTGTCCCCAAATCTTACAGCCATTTAATGAGCTCAGCTCATCATAACA
GACCACCATATGTTCTTTGACTATAATTATGGACAATATTTCACTTTGTGGGATAGGATTGGCGGCTCA
TTCAAAAATCCTTCATCCTTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAAG
CGCAGCAGCCATTCAGGAAATGGCTGTAAGAATGAAAAATTATTCATGGAGAGTTTACAAGACTGAA
TAG
ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001024956

Insert Size: 900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001024956.2](https://www.ncbi.nlm.nih.gov/nuccore/NM_001024956.2)

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:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate 5' exon compared to variant 1. Variants 1 and 2 encode the same protein.</p>