

Product datasheet for **SC115783**

SC5DL (SC5D) (NM_006918) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SC5DL (SC5D) (NM_006918) Human Untagged Clone
Tag:	Tag Free
Symbol:	SC5DL
Synonyms:	ERG3; S5DES; SC5DL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115783 sequence for NM_006918 edited (data generated by NextGen Sequencing)

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ATGGATCTTGTA CTCCGTGTTGCAGACTACTATTTTTTTACACCATACGTGTATCCAGCC
ACATGGCCAGAAGATGACATCTTCCGACAAGCTATTAGTCTTCTGATTGTAACAAATGTT
GGTGCTTACATCCTTTATTTCTTCTGTGCAACTGAGCTATTATTTGTCTTCGATCAT
GCATTAATGAAACATCCACAATTTTAAAGAATCAAGTCCGTCGAGAGATTAAGTTTACT
GTCCAGGCATTGCCATGGATAAGTATTCTTACTGTTGCACTGTTCTTGCTGGAGATAAGA
GGTTACAGCAAATTACATGATGACCTAGGAGAGTTTCCATATGGATTGTTTGAAC TTGTC
GTTAGTATAATATCTTTCCTCTTTTCACTGACATGTTTCTACTGGATTACAGAGGC
CTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATTCT
ACTCCATTTGCAAGTCATGCTTTTACCCTATTGATGGCTTTCTCAGAGTCTACCTTAC
CATATATACCCTTTTATCTTCCATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTG
GTTAATATCTGGACAATTTCCATTCATGACGGTGATTTTCGTGTCCCCCAAATCTTACAG
CCATTTATTAATGGCTCAGCTCATCATAAGACCACCATATGTTCTTTGACTATAATTAT
GGACAATATTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCCTTCATCCTTT
GAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAAGCGCAGCAGCCAT
TCAGGAAATGGCTGTAAGAATGAAAAATTATTCAATGGAGAGTTTACAAAGACTGAATAG
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Clone variation with respect to NM_006918.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006918 unedited
 GTTTGGATTTTGTAAATCCGACTTACTATAGGGNCGGCACGCGCAATTCGGCACGAGGGGC
 GTGCGGAGCGGCGGGACCACCTCCAGGGCTAAGTGATGGATCTTGTACTCCGTGTTGC
 AGATTACTATTTTTTACACCATACGTGTATCCAGCCACATGGCCAGAAGATGACATCTT
 CCGACAAGCTATTAGTCTTCTGATTGTAACAAATGTTGGTGCTTACATCCTTTATTTCTT
 CTGTGCAACACTGAGCTATTATTTTGTCTTCGATCATGCATTAATGAAACATCCACAATT
 TTTAAAGAAATCAAGTCCGTCGAGAGATTAAGTTTACTGTCCAGGCATTGCCATGGATAAG
 TATTTCTTACTGTTGCACTGTTCTTGTCTGGAGATAAGAGGTTACAGCAAATTACATGATGA
 CCTAGGAGAGTTTCCATATGGATTGTTTGAACCTTGTCTGTAGTATAATATCTTTCCTCTT
 TTTCACTGACATGTTTCTACTGATTACAGAGGCCTTTCATCATAGACTGGTATATAA
 GCGCCTACATAAACCTCACCATATTTGGAAGATTCCTACTCCATTTGCAAGTCATGCTTT
 TCACCCTATTGATGGCTTTCTTCCAGAGTCTACCTTACCATATATACCCTTTTATCTTTCC
 ATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTGGTTAATATCTGGACAATTTCCAT
 TCATGACGGTGNATTTTCGTGTCCCCCATATCTTACAGCCATTTATTAATGGCTCAGCTCA
 TCATACAGACCACCATATGTTCTTTGACTATNATTATGGNACATATTTCACTTTGTGGGG
 ATAGATGGNCGCTCATNCAAAATCCNTCATCCTTNGAGGAGAAGGNACCCTCANNTAT
 GTGAAAGAGATGACAGAGGGAATGCGCAGCACCATTTCAGGAATGGCTGTAGAATGAAAC
 TAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006918 unedited
 CGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAATTATGATCAACTT
 TTATTGATTTTACATAAATAGCTTATAGAATGCCTTTACAACTATGTTTTTGAATATA
 TTTGTTACAACACACATTTCCCTTATGAATGTATTTGTTAAATCTTTTTGCAGAGGAAGTA
 GGGAAAAATGAGGGGAGAAGAGGAGGAATAAGATTTTAGAACTAATCGTCAGCAATGGGC
 CTAGGTATTTGGCAATTATTTCCCTTACAAAAAATTACAGGTTTGAACCTCAAACATC
 AAAAGTGTAGTGCATCAATTTAACTAAAAAATCAGTAGTGCCTAATATATTATCTGGGCA
 TCAAAATTTCTTTTTTAAATATATCCAGATTCACATATTTTTACTCTTATTAATAATGG
 TTTTAAATAATAATCATCACAATGTTTAGCTACATAATCCAGATCTGGATTAATCATG
 GTGATATCGATATTTTTAAATCCAATTTATTTGTTAATCAGTAAATGTAATAGGTGAT
 AGTGTGTCAGAGAATGAGCCTCCTATGTGTAGGAAGACGATAGTCTTATTACACCTGCT
 ATCAATTAGGTCATTTACATAGCTGCTAATGTATCAGAATTTTTTCCACACTGATGTAG
 TACTTTATTCAAGTCAAAACAAGTTATCATTATCATACCAACGTTGAAGAATTAACCAT
 CCTGAAACAAGAAACAATCTTTACATTAGTATTTCTTGGTTATGGGGCTTAGTCTTGGA
 TTATTAAGCACAATGATTCTTAATAAACATGGNGTGGATGANAGGCAATGCATATAGCCT
 ANTCCCCCTCATATTTATCTNCATCTTATTTAAATGNTGNTGAGGGCTATACAACCTAC
 AGATCTGCTGCTAGAAAGAACAATTTGCCCGGACACATCTGCATTTTAGCATAGATTA
 GNNCTGGNGTCCAGN

Restriction Sites:

NotI-NotI

ACCN:

NM_006918

Insert Size:

2300 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).

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.
RefSeq:	NM_006918.3 , NP_008849.2
RefSeq Size:	2164 bp
RefSeq ORF:	900 bp
Locus ID:	6309
UniProt ID:	O75845
Cytogenetics:	11q23.3-q24.1
Domains:	Sterol_desat
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
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 (1) represents the shorter transcript. Variants 1 and 2 encode the same protein.</p>