

## Product datasheet for **SC320865**

### 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:	SC5DL
Synonyms:	ERG3; S5DES; SC5DL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001024956.2  
 AGAGACTTCAGCGCCTGGGACTCGGGTGGGCGAGGCGGAAGGTGTCTCGCAGCACGGCT  
 TTTCTCCGCGCCGCGGTTGGTTAGCGAGTGCCCTCTGGGTGCTAGGCGTTGGGCGGATGG  
 TAGGATCGCGGTAGCATAACGGATCCGAGTCTCGCCGAGTGAGAGGAGAGGCTGGCAGG  
 GGCTAAGTGATGGATCTGTACTCCGTGTGCAGATTACTATTTTTTACACCATACGTG  
 TATCCAGCCACATGGCCAGAAGATGACATCTTCCGACAAGCTATTAGTCTTCTGATTGTA  
 ACAAAATGTTGGTGCTTACATCCTTTATTTCTTCTGTGCAACACTGAGCTATTATTTTGTG  
 TTCGATCATGCATTAATGAAACATCCACAATTTTTAAAGAATCAAGTCCGTCGAGAGATT  
 AAGTTTACTGTCCAGGCATTGCCATGGATAAGTATTCTTACTGTTGCACTGTTCTTGCTG  
 GAGATAAGAGGTTACAGCAAATTACATGATGACCTAGGAGAGTTTCCATATGGATTGTTT  
 GAACTTGTGCTTAGTATAATATCTTTCCTCTTTTCACTGACATGTTTACTACTGGATT  
 CACAGAGGCCCTTACATAGACTGGTATATAAGCGCTACATAAACCTCACCATATTTGG  
 AAGATTCTACTCCATTTGCAAGTCATGCTTTTACCCTATTGATGGCTTTCTTCAGAGT  
 CTACCTTACCATATATACCTTTTATCTTTCCATTACACAAGGTGGTTTTTAAAGTCTG  
 TACATCTTGGTTAATATCTGGACAATTTCCATTATGACGGTGATTTTCTGTGCCCCAA  
 ATCTTACAGCCATTTATTAATGGCTCAGCTCATATACAGACCACCATATGTTCTTTGAC  
 TATAATTATGGACAATTTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCCT  
 TCATCCTTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAAGCGC  
 AGCAGCCATTCAGGAAATGGCTGTAAGAATGAAAAATTATTCAATGGAGAGTTTACAAAG  
 ACTGAATAGATTATGCCCAGTTATTCTTAAGTAAGGACAAAAGGAAATATCATCGTA  
 TTTCTTTTTTTAATAAGGAAAAATAATCCATACAGTCAAGATACATAGTAAATGGT  
 ATCATTTGGAAATCAGCATCGTGGGCACTGCTGAGGAATGATCCTAGTGGTAGGTGAGAA  
 GAAGATGCTGTGAACACCAGGACTTTAATCTTATGCTTAAAATGCCAGATGTTGTTGCGG  
 GGACAACCTGTATCTTTCTAGCAGCAGATCTGTAGTTTGTATAGCCTCAACAACAATTTT  
 AAATAAGATGGAGAATAAATTATTGAGGGGACTAGGCTATATGCATTTGCCTTATCCAC  
 CCATGTTTATTAAGAATCATTGTGCTTAATAATACCAAGACTAAGCACCATAACCAAGAA  
 ATACTAATGTAAAGATTGTTTCTGTTTCAGGAATGGTTAATTCTTCAACGTTGGTATGA  
 TAATGATAACTTGTGTTGACTTGAATAAAGTACTACATCAGTGTGGAAAAAATTCTGAT  
 ACATTAGCAGCTATGTAATGACCTAATTGATAGCAGGTGTAATAAGACTATCGTCTTCC  
 TACACATAGGAGGCTCATTCTCTGGACACACTATCACCTATTACATTTTACTGATTAACA  
 AATAAATTGGAATTTAAAAATATCGATATCACCATGATTTAATCCAGATCTGGGATTATG  
 TAGCTAAACATTGTGATGATTATTTTAAAACCATTTAATAAGAGTAAAAATATGT  
 GAATCTGGATATATTTAAAAAAGAAATTTGATGCCAGATAATATATTAGGCACTACTG  
 ATTTTTAGTTAAATTGATGCACTACACTTTTGTGTTTGAAGTTACAAACCTGTAATTT  
 TTTTGTAAAGGAAATAATTGCCAAATACCTAGGCCATTGCTGACGATTAGTTCTAAAAAT  
 CTTATTCTCCTCTTCTCCCTCACTTTTCCCTACTTCTCTGCAAAAAGATTTAACAAA  
 TACATTCATAAGGAAATGTGTGTTGTAACAAATATATTGCAAAAACATAGTTTGTAAAGG  
 CATTCTATAAGCTATTTATGTAAATCAATAAAAGTTGATCATAATTAATAAAAAAAAAA  
 AAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_001024956
- 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.

<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>	<u><a href="#">NM_001024956.2</a></u> , <u><a href="#">NP_001020127.1</a></u>
<b>RefSeq Size:</b>	7019 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	6309
<b>UniProt ID:</b>	<u><a href="#">O75845</a></u>
<b>Cytogenetics:</b>	11q23.3-q24.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Steroid biosynthesis
<b>Gene Summary:</b>	<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>