

## Product datasheet for **RG218412**

### SC5DL (SC5D) (NM\_006918) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SC5DL (SC5D) (NM_006918) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SC5D
Synonyms:	ERG3; S5DES; SC5DL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218412 representing NM_006918 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGATCTTGACTCCGTGTTGCAGATTACTATTTTTTACACCATACGTGTATCCAGCCACATGGCCAG  
AAGATGACATCTCCGACAAGCTATTAGTCTTCTGATTGTAACAAATGTTGGTGCTTACATCCTTTATTT  
CTTCTGTGCAACACTGAGCTATTATTTTGTCTTCGATCATGCATTAATGAAACATCCACAATTTTTAAAG  
AATCAAGTCCGTCGAGAGATTAAGTTTACTGTCCAGGCATTGCCATGGATAAGTATTCTTACTGTTGCAC  
TGTTCTTGCTGGAGATAAGAGGTTACAGCAAATTACATGATGACCTAGGAGAGTTCCATATGGATTGTT  
TGAACCTGTCGTTAGTATAATATCTTTCCCTCTTTTCACTGACATGTTCACTACTGGATTACAGAGGC  
CTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATTCCTACTCCATTTG  
CAAGTCATGCTTTTACCCTATTGATGGCTTTCTCAGAGTCTACCTTACCATATATACCCTTTTATCTT  
TCCATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTGGTTAATATCTGGACAATTTCCATTCATGAC  
GGTGATTTTCTGTGCCCAATCTTACAGCCATTTAATGGCTCAGCTCATCATACAGACCACCATA  
TGTTCTTTGACTATAATTATGGACAATTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCC  
TTCATCCTTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAGCGCAGCAGCCAT  
TCAGGAAATGGCTGTAAGAATGAAAAATTATCAATGGAGAGTTTACAAAGACTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218412 representing NM\_006918  
 Red=Cloning site Green=Tags(s)

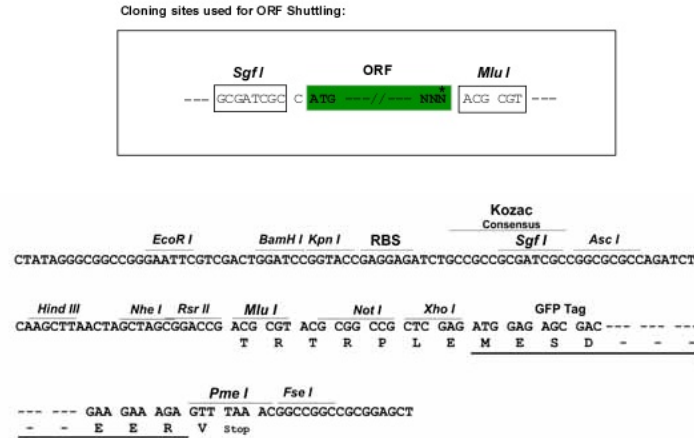
MDLVLRVADYYFFTPYVYPATWPEDDIFRQAISLLIVTNVGAYILYFFCATLSYYFVFDHALMKHPQFLK  
 NQVRREIKFTVQALPWISILTVALFLEIRGYSKLHDDLGEFPYGLFELVVSIIISLFFTFDMFIYWIHRG  
 LHHRLVYKRLHKPHHIWKIPTPFASHAFHPIDGFLQSLPYHIYPFIFPLHKVVYLSLYILVNIWTISIHD  
 GDFRVPQILQPFINGSAHHTDHHMFFDYNYGQYFTLWDRIGGSFKNPSSFEGKGPLSYVKEMTEGKRSSH  
 SGNCGCKNEKLFNGEFTKTE

TRTRPLE - GFP Tag - V

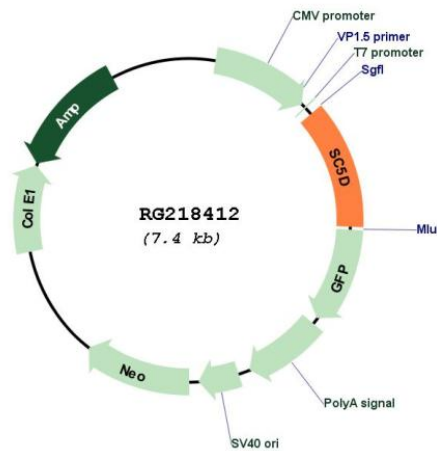
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_006918

**ORF Size:** 897 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_006918.5</a>
<b>RefSeq Size:</b>	2164 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	6309
<b>UniProt ID:</b>	<a href="#">O75845</a>
<b>Cytogenetics:</b>	11q23.3-q24.1
<b>Domains:</b>	Sterol_desat
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Steroid biosynthesis
<b>Gene Summary:</b>	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]