

Product datasheet for **RG200627**

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:	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:	>RG200627 representing NM_001024956 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTTGACTCCGTGTTGCAGATTACTATTTTTTACACCATACGTGTATCCAGCCACATGGCCAG
AAGATGACATCTCCGACAAGCTATTAGTCTTCTGATTGTAACAAATGTTGGTGCTTACATCCTTTATTT
CTTCTGTGCAACTGAGCTATTATTTTGTCTTCGATCATGCATTAATGAAACATCCACAATTTTTAAAG
AATCAAGTCCGTCGAGAGATTAAGTTTACTGTCCAGGCATTGCCATGGATAAGTATTCTTACTGTTGCAC
TGTTCTTGCTGGAGATAAGAGGTTACAGCAAATTACATGATGACCTAGGAGAGTTCCATATGGATTGTT
TGAACCTGTCGTTAGTATAATATCTTTCCCTCTTTTCACTGACATGTTTCACTACTGGATTACAGAGGC
CTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATTCCTACTCCATTTG
CAAGTCATGCTTTTACCCTATTGATGGCTTTCTCAGAGTCTACCTTACCATATATACCCTTTTATCTT
TCCATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTGTTAATATCTGGACAATTTCCATTCATGAC
GGTATTTTCTGTGCCCAATCTTACAGCCATTTAATGGCTCAGCTCATCATACAGACCACCATA
TGTTCTTTGACTATAATTATGGACAATTTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCC
TTCATCCTTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAGCGCAGCAGCCAT
TCAGGAAATGGCTGTAAGAATGAAAAATTATCAATGGAGAGTTTACAAAGACTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200627 representing NM_001024956
Red=Cloning site Green=Tags(s)

MDLVLRVADYYFFTPYVYPATWPEDDIFRQAISLLIVTNVGAYILYFFCATLSYYFVFDHALMKHPQFLK
 NQVRREIKFTVQALPWISILTVALFLEIRGYSKLHDDLGEFPYGLFELVVSIIISLFFTFDMFIYWIHRG
 LHHRLVYKRLHKPHHIWKIPTPFASHAFHPIDGFLQSLPYHIYPFIFPLHKVVYLSLYILVNIWTISIHD
 GDFRVPQILQPFINGSAHHTDHHMFFDYNYGQYFTLWDRIGGSFKNPSSFEGKGPLSYVKEMTEGKRSSH
 SGNCGCKNEKLFNGEFTKTE

TRTRPLE - GFP Tag - V

Restriction Sites:

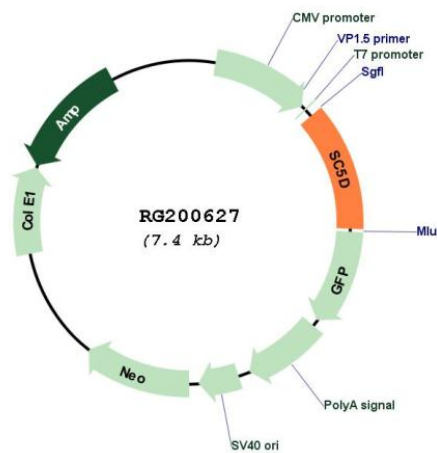
Sgfi-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_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
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]