

Product datasheet for **RR205356**

Sc5d (NM_053642) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sc5d (NM_053642) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sc5d
Synonyms: Sc5dl
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205356 representing NM_053642
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACCTGGTTCTCAGTGCTGCCGACTACTATTTCTTCACTCCCTATGTGTATCCAGCCACATGGCCCG
AGGACAACATCATCCGACAACTGTTAGTCTCCTGGTTGTACCAACCTGGGTGCTTACATCCTCTACTT
CTTCTGCGCGACCCTTAGCTATTATTTGTCTATGACCATTCAATGAACACCCACAGTTTTAAAG
AATCAAGTCTCTCGAGAGATCATGTTCACTGTCAAGTCTTGCCTTGGATCAGCATCCCCACTGTGTCAT
TGTTCTGCTGGAGCTGAGGGGTTACAGCAAACCTATGATGACATAGGAGACTTCCAAATGGCTGGAT
TCATCTCATATGAGCGTGATCTCCTTCTTCTTCCACCGACATGTTGATCTACTGGATTATAGGGGC
CTGCACCACAGACTGCTCTATAAGCACATACATAAACCTCATCATATTTGGAAGATCCCCAGCCGTTTCG
CAAGTCATGCTTTTACCCTGTGGACGGCTTCTTCCAGAGTCTGCCTTACCATATCTACCCTTTGTCTT
CCCCTGCACAAGGTGGTCTACTTAGGTTTATATGTCTTGGTTAATGTCTGGACAATTTCTATTCATGAT
GGCGACTTCCGGGTTCCCAGATCTTCAGGCCGTTCAATTAACGGGTCGGCTCATCACACAGACCACCACA
TGCTCTTTGACTATAACTATGGGCAGTACTTCACACTGTGGGATAGAATCGGAGGCTCTTTAAACATCC
TTCTCTTTTGAAGGAAAGGACCACATAGTTAGTGAAGAACATGACAGAAAAAAGAAATCCAACAGCCTT
GCAGAAAATGGCTGCAAAAGCAAAAAATTATGCAATGGGGAGTTTACAAAGAACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205356 representing NM_053642
 Red=Cloning site Green=Tags(s)

MDLVLSAADYYFFTPYVYPATWPEDNIIRQTVSLLVVTNLGAYILYFFCATLSYFVYDHSMLKHPQFLK
 NQVSREIMFTVKSLPWISIPTVSLFLELRGYSKLYDDIGDFPNGWIHLIMSVISLFFFTDMLIYWIHRG
 LHHRLLYKHIHKPHHIWKIPTPFASHAFHPVDGFLQSLPHYIYPFVPLHKVVYLGLYVLVNVWTISIHD
 GDFRVPQIFRPFINGSAHHTDHMLFDYNYGQYFTLWDRIGGSFKHPSSFEGKGPHSVYKNMTEKESNSL
 AENGCKSKKLCNGEFTKNE

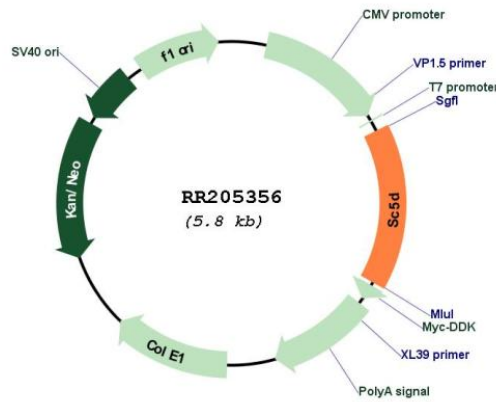
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053642

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_053642.2 , NP_446094.1
RefSeq Size:	2185 bp
RefSeq ORF:	900 bp
Locus ID:	114100
UniProt ID:	Q9EQS5
Cytogenetics:	8q22
MW:	35.1 kDa
Gene Summary:	human homolog is an enzyme involved in catalyzing the conversion of lathosterol into 7-dehydrocholesterol; involved in the synthesis of cholesterol [RGD, Feb 2006]