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Product datasheet for RG231449

SSC5D (NM_001195267) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSC5D (NM_001195267) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SSC5D
Synonyms:	S5D-SRCRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG231449 ORF sequence, codon optimized.
Due to the complexity of NM_001195267, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGTCCTGGCCTGTCTGCTGGCCGCACTTGTTGGGATCCAGGCTGTGGAGCGGCTTAGGTTGGCCG
ACGGACCCCATGGCTGCGCTGGGAGGCTGGAGGTGTGGCATGGGGGCAGGTGGGGTACTGTATGTGACGA
TGGCTGGGATCTGAGGGACGCCGCTGTGGCATGCCGCCAGCTCGGATGTGGGGGCGCCCTTGCAGCACCG
GGCGGCGCATTTTTTGGCGAGGGGGCCGGTCCCGTCTGGTTGTCAGAGCTGGCTTGCAGAGGCAACGAGG
GCCAGCTCGGTCTGTGTCACCATAGAGGCTGGAAAGCTCACATATGCAGCCACGAGGAGGATGCTGGGGT
GGTGTGCGCCGGACAAAGGGTAGCTAACTCCCGCGACGACTCCACAAGCCCTCTTGACGGCGCGCCCTGG
CCAGGTCTTCTGCTGGAACTGTCCCCCTCCACTGAGGAGCCTCTGGTAACCCATGCCCCGCGACCTGCAG
GCAACCCCCAGAATGCTTCCAGAAAAAAGAGCCCACGCCCCAAGCAAGCCAAATCCACGAGGGCCCCCCT
GCTGACTACAGGAGCACCGCGGCAGGAAAGACTGAGACTCGTGAGCGGACCCCATAGATGTGCGGGGAGA
CTGGAAGTGTGGCACGGGGGCAGATGGGGGACTGTGTGTGATGATGGTTGGGACCTGAGGGACGCTGCTG
TGGCCTGCCGCGAACTCGGGTGCGGTGGTGCGCTTGCCGCTCCTGGTGGGGCTAGGTTCGGACCTGGAGC
CGGACCCGTATGGATGGACGACGTTGGCTGCGGAGGCGGTGAACAGGCCCTGCGCGATTGCCCCAGGTCA
CCCTGGGGCCGCAGCAATTGCGACCACAGCGAGGATGCCGGCCTGGTCTGTACAGGACCGGCGCCCCGGC
TGAGACTGGCTGATGGGCCTCACGGCTGTGCAGGAAGGCTGGAGGTTTGGCATGGTGGACGATGGGGGTC
TGTCTGCGACGACGCCTGGGATTTGCGAGATGCGGCTGTAGCCTGCCGCGAACTGGGTTGCGGCGGCGCC
TTGGCAGCACCAGGAGGAGCGTTTTTCGGAGAGGGGAGCGGCCCCATCATACTCGACGACTTGAGATGTC

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GCGGAAACGAAACGGCTCTCCGGTTCTGCCCCGCAAGGCCATGGGGGCAGCATGACTGTCACCACCGCGA
GGATGCCGGCGCCGTATGTGACGGGATGCCCTTGGGCTACGTCCCACCAACTGCCCCCACTGATAGTAAC
AATTCCACCCCTAGAGAGGCTGCTTCTCGACCACCAAGTACCATGACTTCCCAAGCGCCCGGAACCGCAG
GTGTAAGCCCGCCTCCCGCCTCTCCAACAGTGCTGTGGGAACCCGGCCCAGAAGCCGGCTCTCCCCAACT
GCGACTCGTTGCCGGCCCGAGCAAATGCAGCGGCCGGCTTGAGGTGTGGCATGATCAGAGGTGGGGCACG
GTCTGTGACGATTCCTGGGATATGCGAGACTCAGCGGTTGTCTGTCGGGAACTCGGATGCGGCGGGCCTC
AGCAGCCCGATCCAGCCGCAGGAAGGTTCGGCTGGGGGGCCGGGCCTATCTGGCTCGATGACGTTGGGTG
CGTGGGCACAGAAGCTTCCCTTTCCGATTGTCCCGCGGCCCCCTGGGGTAAGCATAATTGCGCCCACAAT
GAAGACGTTGGAGTGACTTGTACAGGGCCCCCTGGATTGGACTCCATAAGTGATCCTTTTTCATGGTCAT
GGATTCCCGGCCTGGGAAGAGATAGGGACGCATGGCTTCCGGGCGAACTCGCCACCAAGCCTAGCGCTAG
CGTGACAGCAAGTGTGTTGGAAAAGACGACTACGAAGGCTCCAGGCAAGATGCCGAAAAGTACCAAAAAA
TGGGTGACTAAAAATGCAAAGCGCCCCACCACACAGCCGCCTGTGATGCCTACTACCAAACACAGTCGGG
CTCAGAGCCCACCCGACCTGACCTCACAGACAACTGCAGCTCTGACAACTGAGGCTAGTAGACGGCCAAC
CAGCGAGTTCACTAGACGACCTACAACCGAAGCTCCTCAGCGATGGACCAGTCACACGACCGCGACACTC
ACCCCCCAGGCCCCAAGAGAAAGGACTACAAAAACAATGGCAATGCTCACCACACAGGGCCCGCAGGAGA
TGACCAGCGAATCTACAATCAAGAGTATCCCACAGGCTAGTCTGGAGCCCAGCGCGGAGATCCCTGAAGG
CTCACCTGAATCACCCAAAGATCCTGCGCCATCCCCTTCCGTTTCAACAACAGGCGAGAGCGGCCTTTTT
AGAGTTCGGCTGGCTGATGGCCCTAACAGGTGCGCCGGGCGGCTTGAGGTGTGGCATGCGGGCCGGTGGG
GTACAGTGTGCGATGATAACTGGGATCTTAGGGACGCCACGGTCGCTTGCTGGGAGCTGGGTTGCGGCAA
GGTAAGGCCAAGGGTGGGGAAGACTCACTACGGCCCTGGGACCGGTCCGATTTGGCTCGACGACATGGGC
TGTAAGGGAAGTGAGGCGTCACTGTCTGACTGCCCATCTGGAGCCTGGGGTAAGCACAACTGTGACCATG
AGGAGGACGTGGGCTTGACCTGCACTGGTTACACTGATTACGACGACTATCCTCCTTGGACTTGGGACCC
CACCTCCCGGGAGGACCTCGCGAAAGGAACGACCACCGCAGGCGTCCCGGGCCACACCCTTCCTTGGCGA
ACAACCAGACGCCCCGGCAGCAGCTCACCAGCGATCAGGAGGCTGCCTGATACTGAGCCCGAAGCAGGAG
CCCCTAGAGGAGACGCACCCAGGAGTAGAACCGCTAGAGTAGCTGCACCCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

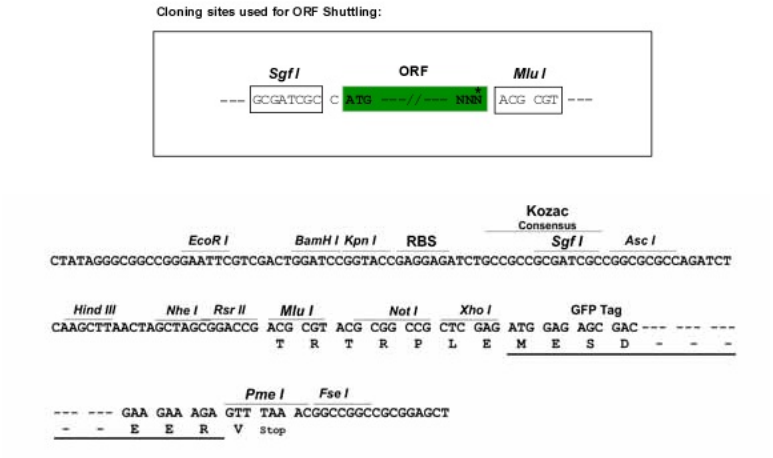
>RG231449 representing NM_001195267
Red=Cloning site Green=Tags(s)

MRVLACLLAALVGIQAVERLRLADGPHGCAGRLEVWHGGRWGTVCDDGWDLRDAAVACRQLGCGGALAAP
GGAFFGEGAGPVWLSELACRGNEGQLGLCHHRGWKAHICSHEEDAGVVCAGQRVANSRDDSTSPLDGAPW
PGLLLELSPSTEEPLVTHAPRPAGNPQNASRKKSPRPKQAKSTRAPLLTTGAPRQERLRLVSGPHRCAGR
LEVWHGGRWGTVCDDGWDLRDAAVACRELGCGGALAAPGGARFGPGAGPVWMDDVGCGGGEQALRDCPRS
PWGRSNCDHSEDAGLVCTGPAPRLRLADGPHGCAGRLEVWHGGRWGSVCDDAWDLRDAAVACRELGCGGA
LAAPGGAFFGEGSGPIILDDLRCRGNETALRFCPARPWGQHDCHHREDAGAVCDGMPLGYVPPTAPTDSN
NSTPREAASRPPSTMTSQAPGTAGVSPPPASPTVLWEPGPEAGSPQLRLVAGPSKCSGRLEVWHDQRWGT
VCDDSWDMRDSAVVCRELGCGGPQQPDPAAGRFGWGAGPIWLDDVGCVGTEASLSDCPAAPWGKHNCAHN
EDVGVTCTGPPGLDSISDPFSWSWIPGLGRDRDAWLPGELATKPSASVTASVLEKTTTKAPGKMPKSTKK
WVTKNAKRPTTQPPVMPTTKHSRAQSPPDLTSQTTAALTTEASRRPTSEFTRRPTTEAPQRWTSHTTATL
TPQAPRERTTKTMAMLTTQGPQEMTSESTIKSIPQASLEPSAEIPEGSPESPKDPAPSPSVSTTGESGLF
RVRLADGPNRCAGRLEVWHAGRWGTVCDDNWDLRDATVACWELGCGKVRPRVGKTHYGPGTGPIWLDDMG
CKGSEASLSDCPSGAWGKHNCDHEEDVGLTCTGYTDYDDYPPWTWDPTSREDLAKGTTTAGVPGHTLPWR
TTRRPGSSSPAIRRLPDTEPEAGAPRGDAPRSRTARVAAPP

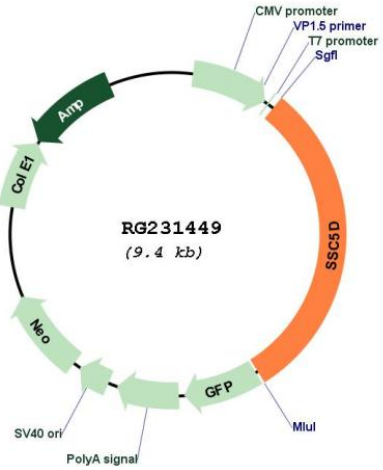
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001195267

ORF Size: 2853 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:	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_001195267.1, NP_001182196.1
RefSeq Size:	3081 bp
RefSeq ORF:	2856 bp
Locus ID:	284297
UniProt ID:	A1L4H1
Cytogenetics:	19q13.42
Gene Summary:	Binds to extracellular matrix proteins. Binds to pathogen-associated molecular patterns (PAMPs) present on the cell walls of Gram-positive and Gram-negative bacteria and fungi, behaving as a pattern recognition receptor (PRR). Induces bacterial and fungal aggregation and subsequent inhibition of PAMP-induced cytokine release. Does not possess intrinsic bactericidal activity. May play a role in the innate defense and homeostasis of certain epithelial surfaces (By similarity).[UniProtKB/Swiss-Prot Function]