

Product datasheet for **RG214041**

Sarcalumenin (SRL) (NM_001098814) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Sarcalumenin
Synonyms:	SAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG214041 representing NM_001098814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGCGCTGGTCTGCTCGGCTGCCTCCTGGCCTCGCTCCTGTTCTCAGGACAAGCAGAAGAGACGG
 AGGATGCAATGAAGAAGCCCCATTGAGGGACCGCTCCACATCGAGAAGACCCCTCATGCTGAATGAGGA
 CAAGCCATCCGATGACTACTCTGCGGTGCTGCAGCGGCTTCGGAAGATCTACCACTCATCCATCAAGCCT
 CTGGAGCAGTCTACAAGTACAATGAGCTCCGGCAGCATGAGATCACAGATGGAGAGATTACCTCCAAGC
 CCATGGTACTGTTCTGGGACCGTGGAGTGTGGTAAATCTACCATGATAAACTACCTCCTTGGGCTGGA
 AAATACTCGCTATCAGCTCTATACAGGCGCTGAACCCACCACCTCTGAGTTCACGGTCTCATGCAATGGG
 CCTAAGCTGAAAACCATCGAGGGCATCGTCATGGCTGCTGACAGCGCCCGTTCTTCTCACCCCTTGAGA
 AGTTTGGCCAGAATTCCTAGAGAAGCTGATTGGCATTGAGGTTCCCCACAACTTCTGGAGAGGGTCAC
 TTTTGTGGATACACCAGGCATCATCGAGAACCAGCAAGCAGCAAGAAAGAGGCTACCCCTTCAACGACGTG
 TGCCAGTGGTTCATCGACAGAGCTGACCTCATCTTTGTCGCTTTGACCCAACAAAGCTGGATGTGGGTG
 TAGAGCTGGAGATGCTCTTCCGCCAGTTGAAGGGGCGTGAATCCCAGATAAGGATCATCCTGAACAAGGC
 TGACAACTTGCGCCACCCAAATGCTCATGCGGGTTACGGGGCCCTCTTCTGGAGCTTGGCCCTCTCATC
 AATGTCACAGAGCCCCAAGGGTTTACGTCAGCTCCTTCTGGCCACAAGAGTATAAGCCGGACACCCATC
 AGGAAGTGTTCCTCCAAGAAGAGATCTCCCTCCTAGAAGACCTGAATCAGGTGATCGAGAACAGACTGGA
 GAACAAGATTGCTTATCCGCCAGCAGCCATCCGGGTCCGCATCCACGCCCTCCTGGTTGACCGCTAC
 CTGCAGACTTACAAGGACAAAATGACCTTCTTCAAGTATGGAGAACTGGTCTTTAAGGACATTGTGGAAG
 ATCCCAGATAAATCTACATCTTCAAGACCATCTGGCAAAGACCAATGTCAGCAAATTTGACCTTCCCAA
 CCGCAGAGGCTATAAGGACTTCTTCCGCATCAATCCCATTTCCAGTTTCAAAGTCTCTCCAGCAGTGC
 TCCTACATGGGAGGTTGCTTTCTGGAGAAGATTGAGCGGGCCATCACTCAGGAGCTTCCGGGCTCCTGG
 GTAGCCTCGGGCTCGGGAAGAATCCAGGTGCTCTCAACTGTGACAAAACAGGGTGTAGCGAAACACCAAA
 AATCGCTACAGGAAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214041 representing NM_001098814
 Red=Cloning site Green=Tags(s)

MRALVLLGCLLASLLFSGQAEETEDANEEAPLRDRSHIEKTLMLNEDKPSDDYSAVLQRLRKIYHSSIKP
 LEQSYKYNELRQHEITDGEITSKPMVLFLGPWSVGKSTMINYLLGLENTYQLYTGAEPPTSEFTVLMHG
 PKLKTIEGIVMAADSARSFSPLEKFGQNFLEKLGIEVPHKLLERVTFVDTPGIENRKQQERGYPFNDV
 CQWFIDRADLIFVVFDPKLDVGLLEMLFRQLKGRESQIRIILNKADNLATQMLMRVYGALFWSLAPLI
 NVTEPRPVYVSSFWPQYKPDTHQELFLQEEISLLEDLNQVIENRLENKIAFIRQHAIRVRIHALLVDYR
 LQTYKDKMTFFSDGELVFKDIVEDPKFYIFKTIKAKTNVSKFDLPNREAYKDFGINPISSFKLLSQQC
 SYMGCGFLEKIERAITQELPGLLGSLGLGNPGALNCDKTGCSETPKNRYRKH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001098814

ORF Size: 1419 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:

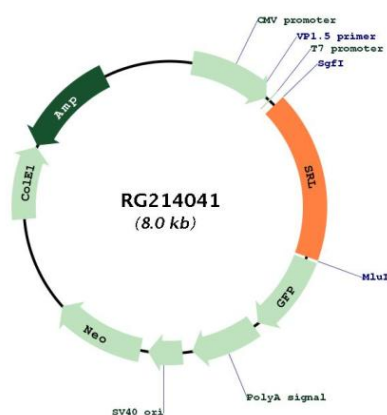
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001098814.2](#)

RefSeq Size:	4219 bp
RefSeq ORF:	1422 bp
Locus ID:	6345
UniProt ID:	Q86TD4
Cytogenetics:	16p13.3
Gene Summary:	May be involved in the regulation of calcium transport.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214041