

Product datasheet for **RG223778**

LRSAM1 (NM_001005374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRSAM1 (NM_001005374) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRSAM1
Synonyms:	CMT2P; RIFLE; TAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG223778 representing NM_001005374
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCTCTTCTCCGGAAGCGGAAACCCAGTGAGGAGGCTCGGAAACGCCTGGAGTACCAGATGTGTT
TGGCAAAAAGAAGCTGGGGCAGATGACATTCTCGACATCTCTAAATGTGAGCTCTCAGAGATTCCATTGG
AGCTTTTGCAACATGCAAAGTTCTGCAGAAGAAGGTGCTGATCGTCCACACGAATCACCTCACTTCCTG
CTTCCAAATCTGCAGCCTCTGAGTCTGGCAACCATCAAGTTCTAGATCTCCACGATAATCAGCTGA
CAGCCCTTCTGACGATCTGGGGCAGCTGACTGCCCTCCAGGTCTTAAACGTGGAAGGAATCAACTGAT
GCAGCTCCACGTTCCATTGGGAACCTGACCCAGCTCCAGACTCTCAATGTTAAAGACAACAAGCTGAAG
GAGCTTCCAGACACCGTGGGGGAGCTTCGAAGCCTGCGTACCCTCAACATCAGTGGAAACGAGATCCAGA
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CCCGCCGCGGGAGGTGTGTGGTCCGGCCTGCGGCCATCTTGACGTTCTCTGCAAAGAGTCAGGGCTG
GAATACTACCCCTTCTCAGTACTTGCTGCCAATTCGGAGCAAGATGGAATCGAGAATCTCGGGACA
GCCCTGATGGGCCACCGACAGATTCTCAAGGGAGGAGTTAGAGTGGCAGAACAGGTTCTCAGACTATGA
GAAGAGGAAGGAACAGAAGATGCTGGAGAACTCGAGTTTGAACGGCGCTGGAATCGGGCAGCGGGAG
CACACCCAGCTCCTTCAGCAGAGCAGCAGCCAGAAGGATGAGATCCTTCAGACGGTCAAGGAGGAGCAGT
CCCGGCTGGAGCAGGGCTGAGTGAGCACCAGCGCCACCTCAACGCAGAGCGGCAGCGGCTGCAGGAGCA
GCTGAAGCAGACGGAACAGAACATTTCCAGCCGGATCCAGAAGCTGCTGCAGGACAATCAGAGACAAAAG
AAAAGCTCCGAGATTTTAAAATCGCTGGAAAATGAAAGAATAAGAATGGAACAGTTGATGTCCATAACCC
AGGAGGAGACTGAGAGCCTGCGGGCAGCTGACGTTGCCCTCCGCCATGCAGCAGATGCTGACTGAGAGCTG
TAAGAACCGGCTCATCCAGATGGCCTACGAATCTCAGAGGCAGAATTTGGTCCAGCAGGCTGTTCCAGC
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GCCAGATCCTGCAGGAGAGCGCGATGCAGAAGGCTGCGTTCGAGGCACTCCAGGTGAAGAAAGACCTGAT
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CCTGGCCAAGGTGGGCGTCTCAGAAGCTGGCCTGCAGCACGAGATCCTCCGGAGAGTCCAGGAAGTCTG
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AGCCTCCTGAGTCTGTGAGGCCATCCGCTCCCCCTGCAGAGCTGGAGGTGCAGGCCTCAGAGTGTGTCG
GTGCTGGAACGGGAGGCCAGATGATCTTCTCAACTGTGGCCACGTCTGCTGCTGCCAGCAGTGTCTGC
CAGCCACTGCGCACCTGCCCGCTGTGCCCCAGGACATCGCCAGCGCCTCCGCATCTACCACAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223778 representing NM_001005374
 Red=Cloning site Green=Tags(s)

MPLFFRKRKPSEEARKRLEYQMCLAKEAGADDILDISKCEELSEIPFGAFATCKVLQKKVLIVHTNHLTSL
 LPKSCSLLSLATIKVLDLHDNQLTALPDDLQQLTALQVLNVERNQLMQLPRSIGNLTQLTLNVKDNKLLK
 ELPDVTGELRSLRTLNI SGNEIQRLPQMLAHVRTLEMLSLDASAMVYPPREVCGAGTAAIQLFLCKESGL
 EYPPSQYLLPILEQDGIENSRDSPDGPTDRFSREELEWQNRFSDEYKKEQKMLEKLEFERRLELQRE
 HTQLLQQSSSQKDEILQTVKEEQSRLEQGLSEHQRLNAERQRLQEQLKQTEQNISSRIQKLLQDNQRQK
 KSSEILKSLENERIRMEQLMSITQEETESLRRRDVASAMQMLTESCKNRLIQMAYESQRQNLVQQACSS
 MAEMDERFQQILSWQMDQNKAI SQILQESAMQKAAFEALQVKKDLMHRQIRSQIKLIETELLQLTQLEL
 KRKSLDTESLQEMISEQRWALSSLLQQLLKEKQQREEELREILTELEAKSETRQENYWL IQYQRLLNQKP
 LSLKLQEEGMRQLVALLEELSAEHYLPFAHHRSLDLLSQMSPGDLAKVGVSEAGLQHEILRRVQELL
 DAARIQPELPPMGEVVTPTAPQEPPE SVRPSAPPAELVQASECVVCLEREAQMIFLNCGHVCCCQCC
 QPLRTPCLCRQDIAQRLRIYHSS

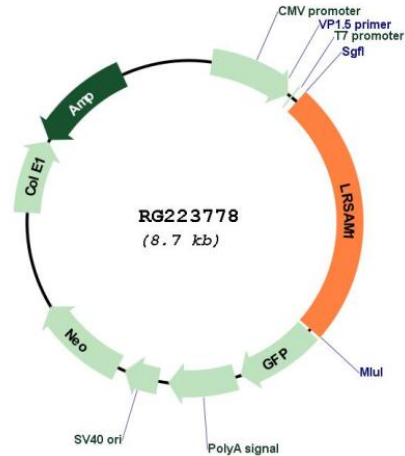
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001005374

ORF Size: 2169 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_001005374.3](#), [NP_001005374.1](#)

RefSeq Size: 2884 bp

RefSeq ORF: 2172 bp

Locus ID: 90678

UniProt ID: [Q6UWE0](#)

Cytogenetics: 9q33.3-q34.11

Protein Families: Druggable Genome

Gene Summary: This gene encodes a ring finger protein involved in a variety of functions, including regulation of signaling pathways and cell adhesion, mediation of self-ubiquitylation, and involvement in cargo sorting during receptor endocytosis. Mutations in this gene have been associated with Charcot-Marie-Tooth disease. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jan 2012]