

## Product datasheet for **RC223778**

### LRSAM1 (NM\_001005374) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LRSAM1 (NM_001005374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRSAM1
Synonyms:	CMT2P; RIFLE; TAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC223778 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCGCTCTTCTCCGGAAGCGGAAACCCAGTGAGGAGCTCGGAAACGCTGGAGTACCAGATGTGTT  
TGGCAAAAAGAAGCTGGGGCAGATGACATTCTCGACATCTCTAAATGTGAGCTCTCAGAGATTCCATTGG  
AGCTTTTGCAACATGCAAAGTTCTGCAGAAGAAGTGCTGATCGTCCACACGAATCACCTCACTTCCCTG  
CTTCCCAAATCTGCAGCCTCTGAGTCTGGCAACCATTAAGTTCTAGATCTCCACGATAATCAGCTGA  
CAGCCCTTCTGACGATCTGGGGCAGTACTGCCCTCCAGGCTTAAACGTGGAAGGAATCAACTGAT  
GCAGCTCCACGTTCCATTGGGAACCTGACCCAGCTCCAGACTCTCAATGTTAAAGACAACAAGCTGAAG  
GAGCTTCCAGACACCGTGGGGGAGCTTCGAAGCCTGCGTACCCTCAACATCAGTGGAAACGAGATCCAGA  
GATTGCCGCAGATGCTGGCTCACGTTCGAACCTGGAGATGCTGAGCCTTGACGCCTCGGCCATGGTCTA  
CCCGCCGCGGGAGGTGTGTGGTCCGGCCTGCGGCCATCTTGACGTTCTCTGCAAAGAGTCAGGGCTG  
GAATACTACCCCTTCTCAGTACTTGCTGCCAATTCGGAGCAAGATGGAATCGAGAACTCTCGGGACA  
GCCCTGATGGGCCACCGACAGATTCTCAAGGGAGGAGTTAGAGTGGCAGAACAGGTTCTCAGACTATGA  
GAAGAGGAAGGAACAGAAGATGCTGGAGAACTCGAGTTTGAACGGCGCTGGAAGTGGGGCAGCGGGAG  
CACACCCAGCTCCTTCAGCAGAGCAGCAGCCAGAAGGATGAGATCCTTCAGACGGTCAAGGAGGAGCAGT  
CCCGGCTGGAGCAGGGCTGAGTGAACACAGCAGCCACCTCGACGAGAGCGGCAGCGGCTGCAGGAGCA  
GCTGAAGCAGACGGAACAGAACATTTCCAGCCGGATCCAGAAGCTGCTGCAGGACAATCAGAGACAAAAG  
AAAAGTCCGAGATTTTGAATCGCTGGAAAATGAAAGAATAAGAATGGAACAGTTGATGTCCATAACCC  
AGGAGGAGACTGAGAGCCTGCGGGCAGCTGACGTTGCCCTCCGCCATGCAGCAGATGCTGACTGAGCTG  
TAAGAACCGGCTCATCCAGATGGCTACGAATCTCAGAGGCAGAACTTGGTCCAGCAGGCCTGTTCCAGC  
ATGGCCGAAATGGATGAACGATTCCAGCAGATTCTGTCGTGGCAGCAAATGGATCAGAACAAGCCATCA  
GCCAGATCCTGCAGGAGAGCGGATGCAGAAGGCTGCGTTGAGGCACTCCAGGTGAAGAAAGACCTGAT  
GCATCGGCAGATCAGGAGCCAGATTAAGTTAATAGAACTGAGTTATTGCAGCTGACACAGCTGGAGTTA  
AAGAGGAAGTCCCTGGACACAGAGTCACTCCAGGAGATGATCTCGGAGCAGCGCTGGGCCCTCAGCTCCC  
TGCTCCAGCAGCTGCTCAAAGAGAAGCAGCAGCGAGAGGAAGAGCTCCGGGAAATCCTGACGGAGTTAGA  
AGCCAAAAGTGAACACAGCAGGAAAATTAAGTGGCTGATTCAGTATCAACGGCTTTTGAACCAGAAGCCC  
TTGTCTTGAAGCTGCAAGAAGAGGGGATGGAGCGCCAGCTGGTGGCCCTCCTGGAGGAGCTGTCGGCTG  
AGCACTACCTGCCATCTTTGCGCACCCAGCCTCTCACTGGACCTGCTGAGCCAAATGAGCCCAGGGGA  
CCTGGCCAAAGTGGGCGTCTCAGAAGCTGGCCTGCAGCACGAGATCCTCCGGAGAGTCCAGGAACTGCTG  
GATGCAGCCAGGATCCAGCCAGAGCTGAAACCAATGGGTGAGGTGTCACCCCTACGGCCCCCAGG  
AGCCTCCTGAGTCTGTGAGGCCATCCGCTCCCCCTGCAGAGCTGGAGGTGCAGGCCTCAGAGTGTGTCG  
GTGCTGGAACGGGAGGCCAGATGATCTTCTCAACTGTGGCCACGCTGCTGCTGCCAGCAGTGTGCTGC  
CAGCCACTGCGCACCTGCCCGCTGTGCCCCAGGACATCGCCAGCGCCTCCGCATCTACCACAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223778 protein sequence  
 Red=Cloning site Green=Tags(s)

MPLFFRKRKPEEARKRLEYQMCLAKEAGADDILDISKCELSEIPFGAFATCKVLQKKVLIVHTNHLTSL  
 LPKSCSLLSLATIKVLDLHDNQLTALPDDLQQLTALQVLNVERNQLMQLPRSIGNLTQLTLNVKDNKLLK  
 ELPDVTGELRSLRTLNI SGNEIQRLPQMLAHVRTLEMLSLDASAMVYPPREVCGAGTAAIQLFCKESGL  
 EYPPSQYLLPILEQDGIENSRDSDGPTDRFSREELEWQNRFSDEYKRKEQKMLEKLEFERRLELQRE  
 HTQLLQSSSQKDEILQTVKEEQSRLEQGLSEHQRLDAERQRLQEQLKQTEQNISSRIQKLLQDNQRQK  
 KSSEILKSLENERIRMEQLMSITQEETESLRRRDVASAMQMLTESCKNRLIQMAYESQRQNLVQQACSS  
 MAEMDERFQQILSWQQMDQNKAI SQILQESAMQKAAFEALQVKKDLMHRQIRSQIKLIETELLQLTQLEL  
 KRKSLDTESLQEMISEQRWALSSLLQQLLKEKQQREEELREILTELEAKSETRQENYWL IQYQRLNQP  
 LSLKLQEEGMRQLVALLEELSAEHYLPFAHRLSLDLLSQMSPGDLAKVGVSEAGLQHEILRRVQELL  
 DAARIQPELKPPMGEVVTPTAPQEPPE SVRPSAPPAELEVQASECVVCLEREAQMIFLNCGHVCCCQCC  
 QPLRTPCLCRQDIAQRLRIYHSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6691\\_h10.zip](https://cdn.origene.com/chromatograms/mk6691_h10.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_001005374

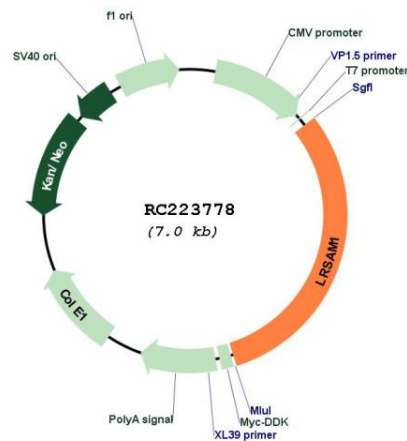
ORF Size: 2169 bp

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](#)

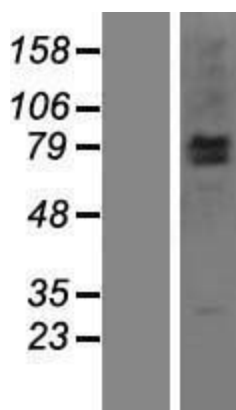
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001005374.3</a></u> , <u><a href="#">NP_001005374.1</a></u>
<b>RefSeq Size:</b>	2851 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	90678
<b>UniProt ID:</b>	<u><a href="#">Q6UWE0</a></u>
<b>Cytogenetics:</b>	9q33.3-q34.11
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	83.6 kDa
<b>Gene Summary:</b>	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]

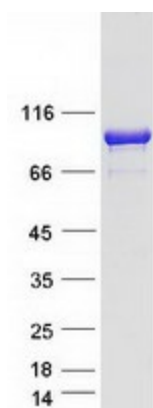
### Product images:



Circular map for RC223778



Western blot validation of overexpression lysate (Cat# [LY423707]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223778 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LRSAM1 protein (Cat# [TP323778]). The protein was produced from HEK293T cells transfected with LRSAM1 cDNA clone (Cat# RC223778) using MegaTran 2.0 (Cat# [TT210002]).