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Product datasheet for SC301911

RLTPR (CARMIL2) (NM_001013838) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RLTPR (CARMIL2) (NM_001013838) Human Untagged Clone
Tag:	Tag Free
Symbol:	RLTPR
Synonyms:	CARMIL2b; IMD58; LRRC16C; RLTPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC301911 representing NM_001013838.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCAGACCCCCGACGGCATCTCCTGTGAGCTCCGAGGCGAGATCACCAGGTTCCTGTGGCCCAAA
GAGGTGGAGCTGCTGCTGAAAACCTGGCTACCCGGGGAGGGTGCTGTGCAAAACCATGTCCTGGCACTG
CTACGATGGAGAGCCTACCTGCTGCACACCACCTGCCTCCCGCTGAGGGTGGACTGCACGTTCAGCTAC
CTGGAGGTCCAGGCCATGGCGCTGCAGGAGACACCCCCTCAGGTCACCTTTGAGCTGGAGTCCCTGCGT
GAGCTGGTCCTGGAGTTTCCTGGTGTGGCCGCCCTGGAACAGCTGGCCCAGCACGTGGCTGCAGCCATC
AAGAAGGTCTTCCCTCGCTCGACCCTTGGGAAGCTATTCCGGAGGCCCACACCAGCCTCCATGCTGGCT
CGGCTGGAGAGAAGCAGCCCCTCGGAGTCCACTGACCCCTGCAGCCCCTGTGGTGGCTTCTTGGAGACA
TACGAGGCTCTGTGTGACTACAATGGCTTCCCTTTCCGAGAGGAGATTCAGTGGGACGTGGACACCATT
TACCATCGCCAGGGCTGCCGCCATTTCAGCCTGGGAGACTTCAGCCACCTCGGCAGTCGGGACCTGGCC
TTGAGTGTGGCTGCCCTGTCCTACAACCTGTGGTTCCGGTGCCTCTCCTGTGTGGACATGAAGCTGAGC
CTTGAGGTCTCAGAACAGATTCTGCACATGATGAGTCAGTCATCACACCTGGAGGAGCTGGTGCTGGAG
ACCTGCAGCCTGAGGGGAGACTTTGTCCGACGACTGGCCCAGGCGCTGGCGGGACACTCAAGCTCTGGG
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GCTCTGGGCCGGGCACTGGCCACCAATGCCGCCTTCGACTCCACCCTGACCCACCTGGACCTTTCTGGG
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CTGTCGTTCCTGAATCTCGCAGGCACCGACACTGCCCTGGACACTGTGAGGGGGTGCTCCGTGGGGGGA
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GATGGCCTCGCGCTCAACACGCACCTCCGCGACCTGCACCTGGACCTCAGCGCTTGCGAGCTGCGCTCG

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GCCGGCGCCCAGGTGATACAAGACTTAGTGTGCGACGCAGGCGCTGTGAGCTCCCTGGATCTGGCGGAT
AACGGCTTCGGCTCAGACATGGTGACTCTGGTGCTGGCCATCGGGAGAAGCCGGTCCCTGAGACATGTG
GCGCTTGGAAGGAACTTCAACGTCCGGTGCAAGGAGACCCTGGACGACGTCCTGCACCGGATTGTCCAG
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GACCGGAACCACACATCTGCTTTGGGTCTGCTGGACGTGGCGCAGGCGCTGGAGCAGAACCACAGCCTG
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CAGCAGGCAACAGTGACAATGCCCCCTGCCCTACCAGCACCGGATGGAGGTGAGCCCAGCCTCCTTGAG
CCTGGGGAATTGGAAGGTCTTTTCTTCCCCGAGGAGAAGGAAGAGGAGAAGGAGAAGGATGACAGTCCT
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GCGGAGCCGGAGCCCGAGCTGGCGGCTCCGGGAGAAGATGCAGAGCCGCAGGCGGGGCCGTCCGCGCGC
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GGGCAGCCCCTGCGCCATCCGACCCGGGCCCGGCCGCGGCCGCGCCGCCAGCACCACCACCGCCCGCCG
CCGGGGGGCCCCCAGGTACCCCCAGCCTTGCCGCAGGAAGGGAATGGGCTCAGTGCCCGCGTGGACGAG
GGCGTGGAGGAATTCTTCTCCAAAAGGCTGATCCAGCAGGATCGCCTCTGGGCCCCCGAGGAGGACCCG
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GCCTACTCGATGATACTGCTGCCTGCCGAGGAGGAGGCAACGCTGGGTGCCAGACCCGACAAGCGGCGG
CCCCTGGAGCGGGGAGAAACAGAACTGGCTCCATCCTTTGAACAGCGGGTACAAGTAATGCTGCAGAGG
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ACCCACTCTGTGTCTGCTGACCCTTCCTGCAGACCTGGCCCAGGGAGCCAGGGGCCTGAGTCTGCCACC
TGGAAGACACTGGGGCAGCAGTTGAATGCGGAGCTCAGGAGCCGTGGTTGGGGCCAACAGGATGGTCCA
GGCCCTCCCTCCCCTGGTCAAAGCCCAAGTCCCTGCAGAACCAGCCCCTCCCCAGACAGCCTGGGCCTC
CCAGAGGACCCTTGCTTGGGCCCCAGAAATGAAGATGGCCAGCTGAGGCCGAGGCCTCTCTCGGCAGGG
CGGCGAGCAGTGTCTGTGCATGAGGACCAGCTCCAGGCCCCTGCTGAACGGCCCCTGAGGCTGCAGCGC
TCCCCCGTCCTCAAACGCAGGCCAAAACTCGAGGCACCTCCATCCCCAAGCCTAGGATCTGGCCTTGGA
ACCGAGCCTCTGCCCCCACAGCCCACAGAGCCCTCCAGCCCTGAGCGGAGCCCACCCTCCCCAGCCACA
GACCAAAGAGGCGGCGGCCCCAATCCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001013838
Insert Size:	4308 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001013838.1
RefSeq Size:	4512 bp
RefSeq ORF:	4308 bp
Locus ID:	146206
UniProt ID:	Q6F5E8
Cytogenetics:	16q22.1
MW:	154.7 kDa
Gene Summary:	This gene encodes a member of the CARMIL (capping protein, Arp2/3, myosin-I linker) family of proteins. The encoded protein interacts with and negatively regulates the heterodimeric capping protein and promotes cell migration. Reduced expression of this gene has been observed in human psoriasis patients. Mutations in this gene cause a human immunodeficiency syndrome characterized by smooth muscle tumors and impaired T-cell function. [provided by RefSeq, May 2017] Transcript Variant: This variant (1) retains an intron in the 5' coding region and contains an alternate in-frame exon in the 3' coding region compared to variant 2. The encoded isoform (1, also known as CARMIL2a) has the same N- and C-termini but is longer compared to isoform 2.