

Product datasheet for **RN216583**

Rilpl1 (NM_001191665) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rilpl1 (NM_001191665) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rilpl1
Synonyms:	GOSPEL; RGD1307973
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216583 representing NM_001191665 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGCCGCTAGGGTCGCCGCCGCCGCCCTGTCGGCTCTGGAGAAGAACGTGGCGGAGCTGACCG
TCATGGACGTGTACGATATCGCTCGCTCGTGGGCCACGAGTTCGAGAGGGTCATCGACCAACACGGCTG
CGAGGCCATTGCACGCCTCATGCCCAAGGTCGTGAGGGTCCTGGAGATCCTCGAGGTGCTGGTTAGCCGA
CACCACGTCGCTCCCGAGCTGGACGAGCTGCGCCTGGAAGTGGACCGTTGCGCGTAGAGAGGATGGACC
GCATTGAAAAGGAGCGCAAGCATCAAAGGAGTTGGAGTTGGTGGAGGATGTGTGGCGGGGGAGGCACA
GGACCTCCTGTCCAGATTGCCAGCTGCAGGAGGAGAATAAGCAGCTGATGACCAACCTCAACCACAAG
GACGTGGGCTTCTCCGAGGAGGATTACAGAAGCACGAAGGCATGTGAGCGGAGAGCGGCAGGTGATGA
AGAGGCTGAAGGAGGTGGTGGACAAGCAGAGGGATGAGATCCGAGCCAAAGACAGGGAGCTGGTCTGAA
GAATGAGGACGTGAGGCTCTGCAGCAGCAGCAGACGAGGCTAATGAAGATCAACCACGACCTTCGGCAC
AGGGTCACCGTGGTGGAGGCCAGGGGAAGGCTCTGATTGAGCAGAAGGTGGAACCTGAGGCAGATCTGC
AGACCAAGGAGCAGGAGATGGGCAGCCTGCGGGCAGAAGTTCGGGAGAGGCTGCAGGGCGA
ACACAGCCAGAATGGGGAGGAAGAGGAGGCTGAGATCCACCACAGCCAGATGGTGGAGAGTCCATTTC
GACGCAGAGAAGGCCGCCCTGGACCTCAAGGACCCCAACGCCCTCGGTTACGCTGCAGGAGCTGCGGG
ATGTGCTGCATGAGAGGAATGAGCTTAAGTCCAAGGTGTTTCTGCTGCAAGAGGAGCTGGCCTACTATAA
GAGCGAAGAAATAGAAGAGGAGAATCGAATACCCCAACCTCCGCCCATCACACCCGAGGACGTCCCCC
CAGCCCGAGTCTGGGATCAAGCGACTGTTTAGCTTTTCTCCCGGACAAGAGGCGCCTGGCCAACACAC
AGAGACCCACACATCCACGAGTCCTTTGGCCAGTGGGCGATTACCCACCGAGATGACGGGTACACGGA
GCAAGGACAGGAAGCCCTGCAGCACCT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001191665
Insert Size:	1221 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001191665.1, NP_001178594.1</u>
RefSeq Size:	2030 bp
RefSeq ORF:	1221 bp
Locus ID:	304469
UniProt ID:	<u>D3ZUQ0</u>
Cytogenetics:	12q15
Gene Summary:	Plays a role in the regulation of cell shape and polarity. Plays a role in cellular protein transport, including protein transport away from primary cilia (By similarity). Neuroprotective protein, which acts by sequestering GAPDH in the cytosol and prevent the apoptotic function of GAPDH in the nucleus. Competes with SIAH1 for binding GAPDH. Does not regulate lysosomal morphology and distribution.[UniProtKB/Swiss-Prot Function]