

Product datasheet for **MC201478**

Rala (NM_019491) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rala (NM_019491) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rala
Synonyms:	3010001O15Rik; AW322615; Ral; Rasl1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031741 sequence for NM_019491
 GCTGCTGCAGAGCGGCCGGGAGGAGGGTGGGTCTCCCTAGAGCGGAGCGCCGGAGTCTCTCTCTCCGCC
 GCCGCCAGGCGCCGCCGCTGCCGCCCTCCGGACTCCTCTTGCCGCGCCCCGCGGAACTCCGAG
 CGCGGTCCGATCGGCGCAGCCGAGGCCAAGAGCCCGGGTTCGAGCGGTCGCGGTGCAGATTTTCTT
 AATCCTCTGAGGACTCTGAAAAACAGGATGGCTGCAACAAGCCCAAGGGTCAGAATTTTGGCCTTAC
 ACAAGTCATCATGGTGGCAGTGGTGGTGGCAAGTCTGCCCTGACTCTGCAGTTCATGTACGACGA
 GTTTGTAGAGGACTATGAACCTACCAAAGCGGACAGCTACAGGAAGAAGTGTAGCCTGGACGGGGAAGAA
 GTGCAGATCGACATCTTAGATACAGCGGGCAGGAGGACTATGCTGCAATTAGAGACAACACTTCCGAA
 GTGGGGAGGGATTCTCTGTGTCTTCTATCACAGAGATGGAGTCTTCGCAGCTACCGCGGACTTCAG
 GGAGCAGATTTTAAAGAGTAAAAGAAGATGAGAATGTTCCATTTCTCTGGTTGGTAACAAGTCAGATCTA
 GAAGATAAAAAGGCAGTTTCTGTAGAAGAGGCAAAAAACAGAGCTGACCAGTGGAACGTTAACTATGTGG
 AGACGTCTGCTAAAACGCGGCCAACGTTGACAAGGATTTTTTGGATTTAATGAGGAAATACGAGCCAG
 AAAGATGGAAGACAGCAAAGAAAAAATGAAAAAAGAAGAGGAAAGTTTAGCCAAGAGAATCAGAGAA
 AGATGCTGCATTTATAATCAAAGCCCAAACCTTTCTTATCCTGACCTGACCATACTAATAAATAATA
 TTTATAAGCATTGCCATTGGAGGCTCAATTGACTGAAATTAACATTTTGGAAATTTGTATGTATC
 ACTAAAAGCATGAATTGGAAGTCACTGGAAGTCAAATCACTTAAAAAGAAATTTGTGTGGCTTACCA
 AGAAGCAGAGTTCAACTATTTTCATAATTGCCTACATTTATCACAGTCTGAATGTAGCGTGAAGCTTG
 GTTTTTTTTTGGGGGGGGGCGAGTCTTCTCAAAGTGAATCAAGAGGTAAGATGGGGGCGGGGAAGAA
 ATGACCATTTCTCTGGTGTATTATAAAGCTTAAATTTTATATTTTAAAAATGTCTTGGTCTTCTA
 CTGCCCTGAAAAATGACAATTGTGAACACGATAGTTAACTGTACTACTTTTTAAGCTGTTGTTATGCAAA
 TCTTGAAGAAGTACTGGCATGGTGTGTCATATAGTAAACTGAGAGTAATTCACCTGTGAATCTGCAT
 ATTAATTACCTGATGATTAACCTAGAAAAGAGATGGGAAGTATTATACATGGACATTTTGAATATGCC
 TTAATTTAGAAACTGAAAAATAATCCAGTGACATCATTCTGGGTGTGTTCTCACTAGCTCGCGGGGCCAC
 TTGCTGCCCATGTGACGAATAACAGAAGATCTTATCTTGCCAGGCGTGGAGAGCTACAAGAAAGATTCC
 TGAGAAATGTCCAAGTCTAGGAGTCTGACCAAATACAGATGTGTGCCATACTCTGGTTCTTAGAGTTC
 CAGAGCTCCTTATTGGTTTTAATAAACTAAGGTAGTAAAGATGAAGGGCCAGCATATATTTATATG
 ATAAGTTTAGATTATGAGCGTGAGTACCAATTAAGTTTGAATGAATGCCCTTTTATGTAGAGTGTGGT
 CCCCAGTCATTGCTGTCTGCAAGTATGCGCATTTAAGTGTAAATCTCCTGGGAGCAGGACAGGGAA
 GACTATGAGGAGAGCTAATGTGGTCTGTACAAGGACACTGGAGGAAGTATGTTTGTACCTGTAAGTTCT
 AAATGTGTAATCCTGAGGTTACAGTTGGGTGTTAGGAGAAGTCTTTGTAGTCTCTTTATGTTTCATAATG
 AATACTGTATCAATATTTCTAACATGAAGCAGTCAAACATGTATGGCACATACTGACCAGACGTACGTC
 TGTGATGTTTCCACTGCAAGAATTCAAGCATGCTGTTAGGAATGTAATTTCAATGGGAAGTAAACACTA
 TTAGGTTTTTTTTCTTTCTCTGTGGGCTAAGACACTTGATTAACAGTTTTTCTTGTGTCACAGTCC
 TAATTTTCATAAGGTCAAGGAGACACTCAGGCATTCAGGAAACAAATGTGTACATGATGTTACCAGAAAC
 AGGCATTCAGGAACTCTACTGTCTAGATACTACATTCAGCTTACCATAAATTTGTCTTGAAGGGTTT
 GATTTAATATTTTACAGACTAGGCCATGTGCAAAATAGAGTTCCCTGTGTAACCCAGCCAGCAGGCC
 CAGCATGGCTGCGTGCACACTATTGCAGTCTTGTGAACCAAGGTCCTAACCACTAACATTGCAATTTGCT
 TTGAGACCTTCCCTGTCTGGTACTAGGTGCTATGAAGCCAGCTGACAGAAGCATCACATGTTTTGGGC
 TGATGCCGCTACCCGGTTCATTTATTTGCAATTTAGCCATTTAAAGACCAATAAAATTCCTTTTTTTTA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_019491
Insert Size: 621 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).

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:	<ol style="list-style-type: none">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>BC031741</u> , <u>AAH31741</u>
RefSeq Size:	2697 bp
RefSeq ORF:	621 bp
Locus ID:	56044
UniProt ID:	<u>P63321</u>
Cytogenetics:	13 6.05 cM
Gene Summary:	Multifunctional GTPase involved in a variety of cellular processes including gene expression, cell migration, cell proliferation, oncogenic transformation and membrane trafficking. Accomplishes its multiple functions by interacting with distinct downstream effectors. Acts as a GTP sensor for GTP-dependent exocytosis of dense core vesicles. Key regulator of LPAR1 signaling and competes with GRK2 for binding to LPAR1 thus affecting the signaling properties of the receptor. Required for anchorage-independent proliferation of transformed cells (By similarity). The RALA-exocyst complex regulates integrin-dependent membrane raft exocytosis and growth signaling (PubMed:20005108). During mitosis, supports the stabilization and elongation of the intracellular bridge between dividing cells. Cooperates with EXOC2 to recruit other components of the exocyst to the early midbody (By similarity). [UniProtKB/Swiss-Prot Function]