

Product datasheet for **MC221874**

Arel1 (NM_178065) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arel1 (NM_178065) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arel1
Synonyms:	1110018G07Rik; AI649076; AW610792; Kiaa0317; mKIAA0317
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221874 representing NM_178065
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTTACGTTATTGGTGAATCATAGTGTCTGTGGTTGCATTCTTCTTACAATTAAGTTCCTCTTTG
 AGCTTGCCGCACGTGTAGTCAGCTTTCTCAGAATGAAGACCGTGAGCGCCGAGGGGACCGGACTATTTA
 TGACTACGTGCGGGAAATTACCTGGATCCCGGTCTGCAAAGTGTCTGGGATTGGAAGGACCCCTAT
 GAGGTGGGCCACAGCATGGCCTTCGAGTGCATTTGTTCTATAAGAATGGACAGCCTTCCCTGCACATC
 GGCCCGTGGGACTGCGGGTTCACATCTCTCACGTTGAACTAGCAGTGGACATTCCAGTGACCCAGGAAGT
 CCTCCAGGAGCCGAATTCTAACGTGGTGAAGGTGGCCTTCACTGTGCGCAAGGCTGGGCGCTATGAGATC
 ACTGTGAAGTTGGGTGGCTTAAATGTGGCTATAGTCCCTACTACAAAATTTTTCAGCCTGGAATGGTGG
 TTCTTCCAAAACAAAATTTGTGTGCCATTTTCTACTCTGGTGTGACGTGTGGGCAGCCACACTCT
 GCAGATAGTGCCCGAGATGAGTATGACAACCCAACCAACAATTCATGTCCCTGAGAGATGAGCACAGC
 TACAGCTTAGCCATTACGAGCTTGGTCCCTCAAGAAGAAGAGAATAATGAAGTCTCATTTGAGAAGTCAG
 TGACGTCCAACAGGCAGACTTGCCAGGTGTTCTTGC GGCTCACCCCTGCATTTCCGAGGTTGCTTCCATGC
 CTGCATTTCATATCAGAACCAACCCATCAATAATGGCGAATTTGACATTATTGTCCTTAGTGAGAATGAG
 AAGAATATTGTTGAACGAAATGTGTCCACCTCAGGAGTGAGCATTACTTTGAGGCTTACCTTTACAATG
 CTAACAACTGTACCAGCACACCATGGCATCTTCTCCCATGCACATGAGCTTCTCAACGCCGGCCCTC
 CACTGCTATTGAGGAGGACGATGAAGACTCACCCCTCAGAGTGTACACCCCTGAGAAGGTGAAGAAACCG
 AAGAAGGTGTACTGCTATGTGTACCAAAGCAATCTCTGTGAAGGAATCTACCTGAAAATCATCCCCT
 GGCCCTCTACACCTTCGAGTGTGCCAGGAACAAAGTTTTTCATACCTTGGCCCTGTTTACAA
 GCTCCTCACGCTGGTGGTGGATGACGGCATTACGCTCCAGTGGAGCTCAGCTGTAAGAAAGGAATATC
 CTAGCAGCCACTTTCATCCGTTCTTGCACAAGAACATTGGAGGCTCTGAGACCTTCAAGACAAGTGA
 ACTTTTTCCAGAGAGAGCTTCGCGAGGTACATATGAAGAGACCTATTCCAAAGTCACTCTGAAGGTGAG
 CAGACACGCCCTTGTGGAGTCGCTTTGAAGGCCACTCGGAATTTTCCATCTCAGACTGGAGCAAGAAC
 TTTGAAGTAGTTTTCCAGGATGAGGAAGCTTTGGATTGGGGAGGGCTCGCCGGGAATGGTTTGAGCTAA
 TCTGCAAAGCACTGTTTGACACCACCAGTCAGCTCTTCCGCCGTTCACTGACAGCAACCAAGCACTAGT
 GCATCCTAACCTAACCGCCCGGCTCACCTGCGCTTGAAGATGTATGAGTTTGCAGGCGGCTGGTGGGC
 AAGTGTGTTGATGAATCCTCTAGGGGGAGCCTACAAGCAGTTGGTCCGTGCCCGTTCACTCGGTCTT
 TCTTGGCCAAAATCATAGGACTCCGTATGCATTACAAGTACTTTGAAACGGATGACCCAGAATCTATAA
 GTCCAAGGTGTGCTTTATCCTCAACAATGACATGAGTGAGATGGAGCTGGTCTTTGCAGAAGAGAAATAC
 AACAAATCAGGTCAACTGGATAAGATTGTAGAAGTCAAGCAGGCGGAGCTCAAACCCAGTCACCAATG
 CAAATAAAATCTTCTATTTAAACCTGCTGGCTCAGTATCGGCTGGCCAGTCAAGTGAAGAGGAGGTGGA
 GCATTTCTGAAAGGCTTGAATGAGCTGGTTCCTGAGAACCTCTGGCTATTTTTGATGAGAATGAGCTT
 GAGCTGCTGATGTGTGGGACTGGAGACATCAATGTATCTGACTTCAAAGCCCATGCTGTAGTGGTTGGT
 GATCCTGGCATTTCAGAGAAAAGGTGATGAGGTGGTTTTGGGCTGTGGTTCCAGTCTGACCCAGGAGGA
 ACTGGCTAGGCTGCTTCAGTTTACAACAGGCTCTTCTCAGTCCCACCTGGAGGATTTGCTGCCCTCTGT
 CCTCATTTCAGATTATTGCTGCTCCAACCCATAGCACGCTTCTACTGCACACACATGTTTTAACCAAC
 TGTGCCTCCCTACATATGACTCATATGAAGAGGTGCACAGGATGCTACAGCTGGCCATCAGTGAGGGTTG
 CGAGGGCTTTGGCATGCT**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_178065
Insert Size: 2472 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:	NM_178065.4 , NP_835166.3
RefSeq Size:	5476 bp
RefSeq ORF:	2472 bp
Locus ID:	68497
UniProt ID:	Q8CHG5
Cytogenetics:	12 D1
Gene Summary:	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Inhibits apoptosis by ubiquitinating and targeting for degradation a number of proapoptotic proteins including DIABLO/SMAC, HTRA2 and SEPT4/ARTS which are released from the mitochondrion into the cytosol following apoptotic stimulation.[UniProtKB/Swiss-Prot Function]