

Product datasheet for **SC114786**

KIAA0317 (AREL1) (NM_014821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0317 (AREL1) (NM_014821) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIAA0317
Synonyms:	KIAA0317
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014821, the custom clone sequence may differ by one or more nucleotides

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ATGTTTTACGTTATTGGTGGGATCACAGTGTCTGTGGTTGCATTCTTCTTCAACAATTAAGTTCCTCTTTG
AGCTTGCCGCACGTGTAGTCAGCTTCTCCAGAATGAGGACCGCAGCGCCGAGGGGACCGGACTATTTA
TGACTACGTGCGGGGAAATTACCTGGATCCCCGGTCTTGCAAAGTCTCTGGGATTGGAAGGACCCCTAT
GAGGTGGGCCACAGCATGGCCTTCCGAGTGCATTTATTCTATAAGAACGGGCAGCCTTTCCCTGCACATC
GGCCTGTGGGACTAAGAGTTCACATCTCTCATGTGCGAGCTAGCAGTGGAATTCAGTGAACCAGGAAGT
CCTTCAGGAGCCCAATCCAACGTAGTAAAAGTGGCCTTCACTGTGCGCAAGGCTGGGCGTTATGAAATC
ACAGTGAAGCTTGGTGGATTAATGTGGCATATAGTCCCTACTACAAAATTTTTCAACCTGGAATGGTGG
TTCCTTCAAGACCAAAATGTGTGCCACTTTTCTACTTGTATTGACCTGTGGCAGCCGCACACCCCT
TCAAATAGTACCCCGAGATGAGTATGATAATCCCACCAACAATCCATGTCCTTGAGAGATGAGCACAAT
TACACCTTGTCATTATGAGCTCGGCCCTCAAGAAGAAGAGAGTACTGGTGTCTCATTTGAGAAATCAG
TAACATCCAACAGGCAGACTTTCCAGGTGTTCTTGCGACTCACCTGCATTCTCGAGGCTGCTTCCATGC
TTGCATTTTCATACCAAAATCAGCCAATCAATAATGGTGAATTTGACATTATTGTCCTAAGTGAGGATGAG
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CTACCAACTGTAGCAGCACTCCATGGCAGCTGCCACCCATGCACATGACCTTCCCAGCGCCGGCCATC
CACTGCTGTTGACGAGGAAGATGAAGACTCGCCCTCTGAGTGCCACACCCCTGAGAAGGTGAAGAAACCG
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GCTGCTCACACTGGTGGTGGATGATGGCATTCAACCTCCTGTGGAGCTCAGCTGTAAGGAGAGGAACATT
CTAGCAGCCACTTTTATCCGCTCCCTGCATAAGAACATAGGAGGCTCTGAGACCTTTCAGGACAAGGTGA
ACTTTTTCCAGCGAGAGCTTCGGCAGGTACATATGAAAAGACCACATTCCAAAGTACCCTGAAGGTCAG
CAGACATGCCTTGTGGAATCGTCTCTGAAAGCCACTCGGAATTTCTCCATCTCAGATTGGAGCAAGAAC
TTTGAGGTTGTTTTCCAGGATGAAGAAGCTCTGGACTGGGGAGGGCCTCGCCGGGAATGGTTTGAGCTAA
TCTGCAAAGCACTATTTGATACAACCAATCAGCTTTCACCCGGTTCAGTGACAACAACCAAGCATTAGT
GCATCCCAACCCTAATCGCCCCGCTCATCTGCGCCTGAAAATGTATGAGTTTGCGGGACGGCTCGTGGGC
AAGTGTCTCTATGAGTCTCTCTAGGAGGAGCCTACAAGCAGTTGGTCCGAGCTCGCTTACCCGCTCTT
TCCTGGCCCAAAATCATAGGACTGCGTATGCATTACAAGTACTTTGAAACAGATGACCCAGAATTCTACAA
ATCTAAAGTTTGTATCCTCAACAATGACATGAGTGAAGTGGAGCTGGTCTTTGCAGAAGAGAAATAT
AATAAATCAGGTCAATTGGATAAGGTTGTAGAACTCATGACAGGTGGAGCTCAAACCTCCAGTCACCAATG
CGAATAAAATCTTCTATTTAAATTTGCTGGCCCAATATCGGCTGGCCAGTCAAGTGAAAGAGGAGGTGGA
ACATTTCTAAAAGGCTGAATGAATTGGTCCCTGAGAACCTTTTGGCTATTTTTGATGAGAATGAGCTT
GAGCTGCTGATGTGTGGGACTGGAGACATCAGTGTGTCTGACTTCAAAGCCCATGCAGTAGTTGTTGGTG
GCTCATGGCATTTCAGAGAAAAGGTCATGAGGTGGTTTTGGACTGTGTTTCCAGTCTGACCCAGGAGGA
GTTGGCTCGGCTACTTCAGTTCACAACAGGCTCCTCTCAGCTACCACCTGGAGGCTTTGCCGCCCTCTGT
CCCTCATTTAGATTATTGCCGCTCCGACCCATAGCACGCTGCCTACTGCACACACATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014821 unedited NNNGGTTCGAATTTTGTATACGACTCCTATAGGGCGGCCGCAATTCGCACGAGCAGGAA TGATATATTCTTGGGCTGTATTTCTCTACCCTGGAGTTCATCCAGTTCATCCCAGAAACA CTGACCTGATTACTGTGACAAAGTCTGATGGATAGACCCCTTCTGTTGACCTTGTGGCGT TTTTCTTTCATGTGGAAGTTGGAAGACAAGGTGAAAGGGGCCAAAAGTTACCTGCTTTGG TGAATAGGAGTGTCTACTTGGTTCTCAGAACATGGGCCCTCGTTTAAAGCTGCAGCTGT GATCCTCGGCTGTCTGTTGGCATTGACGGGACCTGATGTTTTACGTTATTGGTGGAAATCA CAGTGTCTGTGGTTGCATTCTTCTTCAACAATTAAGTTCCTCTTTGAGCTTGCCGCACGTG TAGTCAGTTCCTCCAGAATGAGGACCGCGAGCGCCGAGGGGACCGGACTATTTATGACT ACGTGCGGGGAAATTACCTGGATCCCCGGTCTTGCAAAGTCTCCTGGGATTGGAAGGACC CCTATGAGGTGGGCCACAGCATGGCCTTCCGAGTGCATTTATTCTATAAGAACGGGCAGC CTTTCCCTGCACATCGGCCTGTGGGACTAAGAGTTCACATCTCTCATGTGCGAGCTAGCAG TGGAAATTCAGTGACCCAGGAAGTCCTTCAGGAGCCCAATCCAACGTAGTAAAAGTGG CCTTCACTGTGCGCAAGGGCTGGCGTTATGAAATACAGTGAAGCTTGGTGGATTAATGT GGCATATAGTCCCTTACTACAAATTTTTCAACCTGGAATGGNTGGNTCCTTNCTAGACCC CAAATGNGTGCCACCTTTTCTACNTCTTGATTGACCTGTGGGCAGCCGCACACCCTTTC AATAGTACCCCGAGATGAGT
Restriction Sites:	NotI-NotI
ACCN:	NM_014821
Insert Size:	6000 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_014821.1 , NP_055636.1
RefSeq Size:	4403 bp
RefSeq ORF:	2472 bp
Locus ID:	9870
Cytogenetics:	14q24.3
Domains:	HECT, Filamin
Protein Families:	Druggable Genome, Transmembrane

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]