

Product datasheet for SC121381

AER61 (EOGT) (NM_173654) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AER61 (EOGT) (NM_173654) Human Untagged Clone
Tag:	Tag Free
Symbol:	AER61
Synonyms:	AER61; AOS4; C3orf64; EOGT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121381 sequence for NM_173654 edited (data generated by NextGen Sequencing)

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ATGTTAATGTTGTTTGTCTTTGGAGTCTTACTTCATGAAGTCTCACTGAGTGGTCAGAAT
GAAGCTCCTCCTAATACTCACAGCATTCCAGGCGAACCTCTGTATAACTATGCCAGCATC
CGTTGCCAGAGGAGCACATTCCCTTCTTTTTGCACAACAATAGGCATATTGCCACTGTC
TGTAGGAAAGACTCTCTTTGTCCATATAAGAAACACCTAGAGAAGCTAAAGTACTGCTGG
GGTTATGAGAAATCCTGCAAACCAGAGTTCAGGTTTGGTTACCCAGTTTGCAGCTATGTC
GACATGGGATGGACGGACACTCTTGAGTCAGCTGAGGACATATTTGGAAACAAGCTGAC
TTTGGATATGCCAGAGAGAGGCTGGAGGAGATGCATGTGCTCTGTCAGCCTAAGGAAACG
AGTGACTCAAGTCTGGTGTGTTCCCGTTATCTTCAGTACTGCAGGGCAACCAATCTCTAT
CTTGATTTAAGAAACATCAAGAGAAATCATGACAGATTTAAGGAGGACTTTTTCCAGAGT
GGTGAAATTGGAGGGCACTGTAAACTTGACATCCGTACATTGACGCTCTGAAGGTCAGCGC
AAAAGCCCTCTGCAGTCATGGTTTGGCTGAGCTACAAAGCTATACTCAGCTCAACTTCAGA
CCTATAGAAGATGCTAAATGTGACATTGTCATTGAAAAACCAACATATTTTCATGAAATTA
GATGCAGGTGTTAACATGTATCACCCTTCTGTGATTTTCATCAATCTTTATATTACTCAG
CACGTTAATAACTCATTCACTGACGTGTACATCGTGATGTGGGACACCGATGGAAAA
ATTCGAGTCACCATCTTGCACGGAGCAGAGAATACCGGAAAACTCTTAACCAAAATGAG
CTTGATAATGCACTGAAAACAGTATCTACATTTGAAGTCCAGATTGTTGATTACAAGTAT
AGAGAACTTGGGTTTTTAGATCAACTAAGGATCACACACAACACGGACATATTTATTGGA
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CTGTACAACCTGTGAAGATGAACGCTGTTACTTAGACTTGGCCAGGCTGAGAGGCGTTTAC
TACATCACTTGGCGACGGCAGAACAAAGTCTTTCCTCAGGATAAGGGCCACCATCCAACC
CTGGGGGAGCACCCGAAGTTCACCAACTACTCTTTCGATGTAGAAGAATTTATGTATCTT
GTCCTTCAGGCTGCAGACCAGTATTGCAACACCCAAAGTGGCCATTTAAGAAGAAACAT
GATGAGCTATAA

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Clone variation with respect to NM_173654.1



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_173654 unedited AAATTCGCCCGCCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC GAATTCGACAGGAGGACTCCCTCCTCTGGAACAGCCGCGTCTCTCCGCCTCCTCCT CGGTAGTTCACGGCTGCCCGGCTCCAGGCCTGTGAAATCGAATCAAGGTTTCTGGAG TGGAGTGATTCCAGCTGCTTTGAGCTGAAGGAAAAGTAGCCTGGCCAGTAAAGCGTCCGT GTGCTGGAGGAGTGCAGCCACCCATCCCGCGGGCCTTGCAGGACGACCCAGACCCAGGAA GGCTTTGTGCCAGGCCAGCAGCCACCCAGCCGCTTATGCAAGTGGGTACATGCCCT CGCCAGACGCCAGCTTTCTGATCTGCGTCTTTAGAGTTTTTCCATCGCCTAAGCGTACT TCTCCACTGATCGTTTTAGAGACCTGAAACATCACAGAAGCTTCTGAGTGGTTCTGAAG AGTCAAGAGGTTTGCAGGTTGCTATGTTAATGTTGTTTGTCTTTGGAGTCTACTTCATG AAGTCTCACTGAGTGGTCAAGTGAAGCTCCTCCTAATACTCACAGCATTCCAGGCGAAC CTCTGTATAACTATGCCACTGCTGTAGGAAAGAGTCTCTNTGTCCATATAAGAGCACCT ACAATAGGCATATTGCCACTGTCTGTAGGAAAGAGTCTCTNTGTCCATATAAGAGCACCT AGAAGGGCTAAGTACTGGCTGGNGTTATGAGACATCTGCAACCGGAGNTTCAGGGTTTG GATACCCAGAATGCAGCTATGTACAATGGGAATGGGACGGACACTCTTGAGTCCGTGAG ACATTATNTTGGAACAGCTGACTATGAATGCANAGAAGGCTGGAGAACATCTGNTCTCTN
Restriction Sites:	NotI-NotI
ACCN:	NM_173654
Insert Size:	4000 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>NM_173654.1</u> , <u>NP_775925.1</u>
RefSeq Size:	4152 bp
RefSeq ORF:	1332 bp
Locus ID:	285203
UniProt ID:	<u>Q5NDL2</u>
Cytogenetics:	3p14.1

Gene Summary:

This gene encodes an enzyme that acts in the lumen of the endoplasmic reticulum to catalyze the transfer of N-acetylglucosamine to serine or threonine residues of extracellular-targeted proteins. This enzyme modifies proteins containing eukaryotic growth factor (EGF)-like domains, including the Notch receptor, thereby regulating developmental signalling. Mutations in this gene have been observed in individuals with Adams-Oliver syndrome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015] Transcript Variant: This variant (2) lacks three alternate in-frame exons in the middle portion of the coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.