

Product datasheet for **RC238728**

AER61 (EOGT) (NM_001278689) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AER61 (EOGT) (NM_001278689) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AER61
Synonyms:	AER61; AOS4; C3orf64; EOGT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238728 representing NM_001278689
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTAATGTTGTTTGTCTTTGGAGTCTTACTTTCATGAAGTCTCACTGAGTGGTCAGAATGAAGCTCCTC
 CTAATACTCACAGCATTCCAGGCGAACCTCTGTATAACTATGCCAGCATCCGCTTGCCAGAGGAGCACAT
 TCCTTCTTTTTGCACAACAATAGGCATATTGCCACTGTCTGTAGAAAGACTCTCTTTGTCATATAAG
 AACACCTAGAGAAGCTAAAGTACTGCTGGGGTTATGAGAAATCTGCAAACCAGAGTTCAGGTTTGGTT
 ACCCAGTTTGCAGCTATGTCGACATGGGATGGACGGACACTCTTGAGTCAGCTGAGGACATATTTTGGAA
 ACAAGCTGACTTTGGATATGCCAGAGAGAGGCTGGAGGAGATGCATGTGCTCTGCAGCCTAAGGAAACG
 AGTGACTCAAGTCTGGTGTGTTCCCGTTATCTTCAGTACTGCAGAGCAACCAATCTCTATCTTGATTTAA
 GAAACATCAAGAGAAATCATGACAGATTTAAGGAGGACTTTTTCCAGAGTGGTAAATTTGGAGGGCACTG
 TAAACTTGACATCCGTACATTGACGTCTGAAGGTGAGCGCAAAGCCCTCTGCAGTCATGGTTTGTCTGAG
 CTACAAAGCTATACTCAGCTCAACTTCAGACCTATAGAAGATGCTAAATGTGACATTGTCAATGAAAAAC
 CAACATATTTTCATGAAATTAGATGCAGGTGTTAACATGTATCACCACCTCTGTGATTTTCATCAATCTTTA
 TATTACTCAGCACGTTAATAACTCATTCACTGACTGACGTGTACATCGTGTATGCGGACACCAGTTCTTAC
 GGATATGGTGACCTATTCTCCGACACATGGAAATGCATTTACTGATTATGACGTTATACATTTGAAAACTT
 ATGATTCAAAAGGGTATGTTTTAAAGAAGCTGTTTTTTCATTACTCCCCGCATGAGGTATGGGCTGTT
 CTATAACTCCTCTGATATCTGGCTGTCAAAACTGGACTATTCAGGGCATTGCCCAGCATGTACTA
 CACAGACTAAACATCACACAAGAAGGACCTAAGGATGGAAAAATTCGAGTCACCATTCTTGCACGGAGCA
 CAGAATACCGGAAAAATCCTTAACCAAAATGAGCTTGTAAATGCACTGAAAAACAGTATCATATTTGAAGT
 CCAGATTGTTGATTACAAGTATAGAGAAGCTGGGTTTTTATAGTCAACTAAGGATCACACACAACACGGAC
 ATATTTATTGGAATGCATGGAGCTGGTCTGACCCATTTACTTTTCCCTCCAGACTGGGCTGCTGATTTG
 AACTGTACAACCTGTAAGATGAACGCTGTACTTAGACTTGCCAGGCTGAGAGGCGTTCCTACATCAC
 TTGGCGACGGCAGAACAAAGTCTTCTCAGGATAAGGGCCACCATCCAACCCTGGGGGAGCACCCGAAG
 TTCACCAACTACTCTTTCGATGTAGAAGATTTATGTATCTTGTCTTCCAGGCTGCAGACCACGTATTGC
 AACACCAAGTGGCCATTTAAGAAGAAACATGATGAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238728 representing NM_001278689
 Red=Cloning site Green=Tags(s)

MLMLFVFGVLLHEVSLSGQNEAPPNTHSIPGEPLYNYASIRLPEEHIPFFLHNNRHAIATVCRKDSLCPYK
 KHLEKLYCWGYEKSCPEFRFGYPVCSYVDMGWTDLESAEDIFWKQADFGYARERLEEMHVLCPKET
 SDSSLVCSRYLQYCRATNLYLDLRNIKRNRHDFKEDFFQSGEIGGHCKLDIRTLTSEGRKSPLQSWFAE
 LQSYTQLNFRPIEDAKCDIVIEKPTYFMKLDAGVNMYYHFCDFINLYITQHVNSFSTDYIVMWDTSY
 GYGDLFSDTWNFTDYDVIHLKTYDSKRVCFEAVFSLLPRMRYGLFYNTPLISGCQNTGLFRAFAQHVL
 HRLNITQEGPKDGKIRVTILARSTEYRKILNQNELVNALKTVSTFEVQIVDYKYRELGFLLDQLRITHNTD
 IFIGMHGAGLTHLLFLPDWAAVFELYNCEDERCYLDLRLRGVHYITWRRQNKVFPQDKGHHTLGEHPK
 FTNYSFDVEEFMYLVLQAADHVLQHPKWPFKKKHDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001278689

ORF Size: 1581 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001278689.2](#)

RefSeq Size: 4666 bp

RefSeq ORF: 1584 bp

Locus ID: 285203

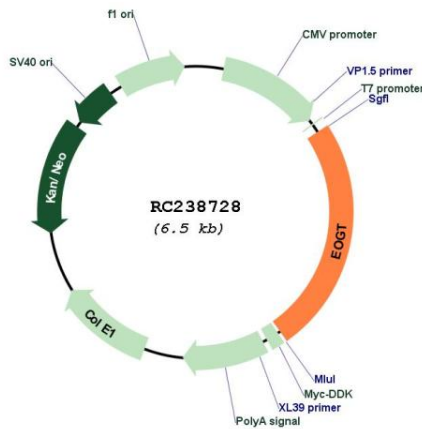
UniProt ID: [Q5NDL2](#)

Cytogenetics: 3p14.1

MW: 62.5 kDa

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]

Product images:



Circular map for RC238728