

Product datasheet for **RC209333**

AER61 (EOGT) (NM_173654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AER61 (EOGT) (NM_173654) 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:

>RC209333 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTAATGTTGTTTGTCTTTGGAGTCTTACTTTCATGAAGTCTCACTGAGTGGTCAGAATGAAGCTCCTC
 CTAATACTCACAGCATTCCAGGGCAACCTCTGTATAACTATGCCAGCATCCGCTTGCCAGAGGAGCACAT
 TCCTTCTTTTTGCACAACAATAGGCATATTGCCACTGTCTGTAGAAAGACTCTCTTTGTCATATAAG
 AAACACCTAGAGAAGCTAAAGTACTGCTGGGGTTATGAGAAAATCTGCAAACCAGAGTTCAGGTTTGGTT
 ACCCAGTTTGCAGCTATGTCGACATGGGATGGACGGACTCTTGAGTCAGCTGAGGACATATTTTGGAA
 ACAAGCTGACTTTGGATATGCCAGAGAGAGGCTGGAGGAGATGCATGTGCTCTGTCAGCCTAAGGAAACG
 AGTGACTCAAGTCTGGTGTGTTCCCGTTATCTTCAGTACTGCAGGGCAACCAATCTCTATCTTGATTTAA
 GAAACATCAAGAGAAATCATGACAGATTTAAGGAGGACTTTTTCCAGAGTGGTAAATTTGGAGGGCACTG
 TAAACTTGACATCCGTACATTGACGTCTGAAGGTGACGCGAAAAGCCCTCTGCAGTCATGGTTTGTCTGAG
 CTACAAAGCTATACTCAGCTCAACTTCAGACCTATAGAAGATGCTAAATGTGACATTGTCAATGAAAAAC
 CAACATATTTTCATGAAATTAGATGCAGGTGTTAACATGTATCACCCTTCTGTGATTTTCATCAATCTTTA
 TATTACTCAGCACGTTAATAACTCATTCACTGACTGACGTGTACATCGTGTGTTGGACACCGATGGAAAA
 ATTCGAGTCACCATTTCTGCACGGAGCAGAGAATACCGGAAAAATCCTTAACCAAAATGAGCTTGTAAATG
 CACTGAAAACAGTATCTACATTTGAAGTCCAGATTGTTGATTACAAGTATAGAGAAGTGGGTTTTTAGA
 TCAACTAAGGATCACACACAACCGACATATTTATTGGAATGCATGGAGCTGGTCTGACCCATTTACTT
 TTCTTCCAGACTGGGCTGCTGTATTGAACTGTACAAGTGAAGATGAACGCTGTTACTTAGACTTGG
 CCAGGCTGAGAGGCGTTCACTACATCACTTGGCGACGGCAGAAAGTCTTTCCCTCAGGATAAGGGCCA
 CCATCCAACCCTGGGGGAGCACCCGAAGTTCACCAACTACTCTTTCGATGTAGAAGAATTTATGTATCTT
 GTCCTTCAGGCTGCAGACCACGTATTGCAACACCCAAAGTGCCATTTAAGAAGAAACATGATGAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209333 protein sequence
 Red=Cloning site Green=Tags(s)

MLMLFVFGVLLHEVSLSGQNEAPPNTHSIPGEPLNYASIRLPEEHIPFFLHNNRHIATVCRKDSLCPYK
 KHLEKLYCWGYEKSKPEFRFGYPVCSYVDMGWDTLESAEDIFWKQADFGYARERLEEMHVLQPKET
 SDSSLVCSRYLQYCRATNLYDLRNIKRNHDRFKEDFFQSGEIGGHCKLDIRTLTSEGQRKSPLQSWFAE
 LQSYTQLNFRPIEDAKCDIVIEKPTYFMKLDAGVNMYYHHFCDFINLYITQHVNNSFSTDVYIVMWDTDGK
 IRVTILARSTEYRKILNQNELVNALKTVSTFEVQIVDYKYRELGFLDQLRITHNTDIFIGMHGAGLTHLL
 FLPDWAAVFELYNCEDERCYLDLARLRGVHYITWRRQNKVFPQDKGHHTLGEHPKFTNYSFDVEEFMYL
 VLQAADHVLQHPKWPFFKKHDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6279_b04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_173654

ORF Size: 1329 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_173654.1](#), [NP_775925.1](#)

RefSeq Size: 4414 bp

RefSeq ORF: 1332 bp

Locus ID: 285203

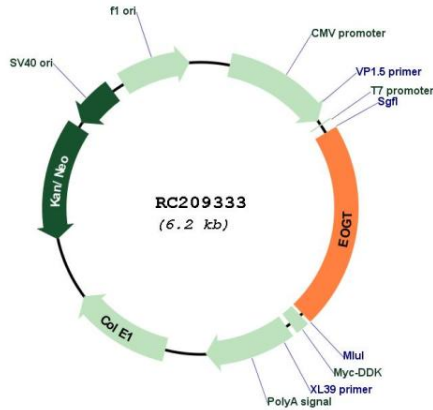
UniProt ID: [Q5NDL2](#)

Cytogenetics: 3p14.1

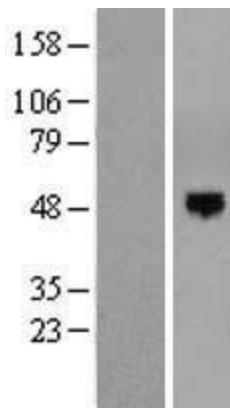
MW: 52.3 kDa

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]

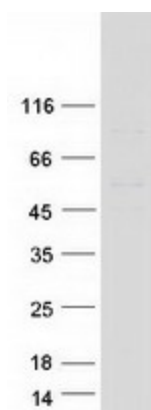
Product images:



Circular map for RC209333



Western blot validation of overexpression lysate (Cat# [LY406537]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209333 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EOGT protein (Cat# [TP309333]). The protein was produced from HEK293T cells transfected with EOGT cDNA clone (Cat# RC209333) using MegaTran 2.0 (Cat# [TT210002]).