

Product datasheet for **MC221635**

Axl (NM_001190975) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axl (NM_001190975) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Axl
Synonyms:	AI323647; Ark; Tyro7; Ufo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NM_001190975.1
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAGGGTCCCCTGGCTGGTGGTTGGCGTGTGCTGCTGGGGGTGTGCAGCCAT AAGGACACAC
 AGACCGAGGCTGGCAGCCGTTTGTGGGAACCCAGGGAATATCACAGGTGCCAGAGGACTCACGGGGAC
 ACTTCGGTGTGAGCTCCAGGTTACAGGGGAACCCCTGAGGTGGTGTGGCTTCGAGATGGACAGATCCTA
 GAACTGGCTGATAACACCAGACCCAGGTGCCTCTGGGCGAAGACTGGCAAGATGAATGGAAAGTTGTCA
 GTCAGCTCAGAATCTCAGCCCTGCAACTTTCAGATGCAGGGGAGTACCAGTGTATGGTGCATCTAGAAGG
 ACGGACCTTTGTGTCTCAGCCGGGCTTTGTAGGGCTGGAAGGTCTCCCGTACTTCTGGAGGAGCCTGAG
 GACAAAGCTGTGCTGCCAACACCCCTTCAACCTAAGCTGCCAGGCCAGGGACCCCGGAACCCGTGA
 CCCTACTCTGGCTTCAAGATGCTGTCCCTGGCCCCAGTACAGGACACAGCTCCAGCACAGTCTGCA
 AACTCCAGGCCTGAACAAGACATCTTCTTCTCATGTGAAGCCACAATGCCAAGGGAGTACCACCTCC
 CGCACAGCCACCATCACAGTGTCCCCAGAGGCCTACCATCTCCACGTGGTTTTCCAGACAACCTACGG
 AGCTAGAGGTAGCTTGGACCCCTGGCCTGAGTGGCATCTACCCGCTCACCCACTGCAACCTGCAGGCCGT
 GCTGTCAGACGATGGGGTGGGTATCTGGCTGGGAAAGTCAGATCCTCCTGAAGACCCCTCACCTTGCAA
 GTATCAGTGCCCCCACCAGCTTCGGCTGGAAAAGTCTTCTCACACCCCGTATCACATCCGGATAT
 CCTGCAGCAGCAGCCAGGGCCCCACCTTGGACCCACTGGCTTCTGTGGAGACCACAGAGGGAGGGCA
 AGGACAGCCACTCCACCATCTGGTGAGTGAACCCACCTCGGCCTTCTCGTGGCCTTGGTGGTATGTA
 CTGCTGGGAGCACTTGTGGCTGCCGCTGCGTCTCATCTTGGCCCTGTCTTGTCCATCGGAGGAAGA
 AGGAGACTCGATATGGGGAGGTGTTTGGCCAAACCGTGGAAAAGAGTGAAGTGGTACTGAGTACCGTGT
 CCGAAAAGTCTACAGCCGGCGGACCACTGAAGCCACCTTGAACAGTCTGGGCATCAGTGAAGAGCTGAAG
 GAGAAACTACGAGACGTATGGTATGATCGGCAT AAGGTGGCCTTGGGGAAGACCCCTGGGAGAAGGAGAAT
 TTGGCGTGTGATGGAAGGTGAGTCAATCAGGATGACTCCATCCTCAAGGTGCTGTGAAGACCATGAA
 AATTGCCATCTGCACAAGATCAGAGCTGGAGGATTTCTGAGTGAAGCTGTCTGCATGAAGGAATTTGAC
 CACCCCAACGTGATGAGGCTCATTGGCGTCTGTTTTAGGGCTCTGACAGAGAGGGTTTCCAGAACCTG
 TGGTCACTTGCCTTTCATGAAACACGGAGACCTACACAGTTTCTCCTGTACTCCCGGCTCGGGGACCA
 GCCAGTGTCTGCCACTCAGATGCTAGTGAAGTTCATGGCCGACATTGCCAGTGGTATGGAGTACCTG
 AGTACCAAGAGATTCATACATCGGGACCTGGCTGCCAGGAACTGCATGCTGAATGAGAACATGTCCTGT
 GTGTGGCAGACTTCGGGCTCTCCAAGAAGATCTACAACGGGGATTACTACCGCCAAGGGCGCATTGCCAA
 GATGCCAGTCAAGTGGATTGCTATTGAGAGTCTGGCAGATCGGGTCTACACCAGCAAGAGCGATGTGTGG
 TCCTTCGGTGTGACAATGTGGGAGATCGCCACCCGAGGCCAAACTCCCTATCCAGGGGTGGAGAACAGTG
 AGATTTACGACTACCTGCGTCAAGGAAATCGGCTGAAACAGCCTGTGGACTGTCTGGACGGCCTGTATGC
 CCTGATGTCTCGGTGCTGGAACTGAACCTCGAGACCGCCAAGTTTTGCGGAGCTCCGGGAAGACTTG
 GAGAACACACTGAAGGCTCTGCCCCCTGCTCAGGAGCCAGATGAAATCCTCTATGTCAACATGGATGAGG
 GCGGAAGCCACCTTGAACCCCGTGGGGCTGCTGGAGGAGCTGACCCCAACCAACCTGATCCTAAGGA
 TTCCTGTAGCTGTCTCACTGCAGCTGACGTCCACTCAGCTGGACGCTATGTCCTTTGCTTCTACAGCC
 CCAGGACCACTCTGTCTGCTGACAGAGGCTGCCAGCACCTCCAGGGCAGGAGGACGGAGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1375_g07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001190975

Insert Size: 2376 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_001190975.1</u> , <u>NP_001177904.1</u>
RefSeq Size:	4793 bp
RefSeq ORF:	2376 bp
Locus ID:	26362
Cytogenetics:	7 14.02 cM
Gene Summary:	<p>Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding growth factor GAS6 and which is thus regulating many physiological processes including cell survival, cell proliferation, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of AXL. Following activation by ligand, ALX binds and induces tyrosine phosphorylation of PI3-kinase subunits PIK3R1, PIK3R2 and PIK3R3; but also GRB2, PLCG1, LCK and PTPN11. Other downstream substrate candidates for AXL are CBL, NCK2, SOCS1 and TNS2. Recruitment of GRB2 and phosphatidylinositol 3 kinase regulatory subunits by AXL leads to the downstream activation of the AKT kinase. GAS6/AXL signaling plays a role in various processes such as endothelial cell survival during acidification by preventing apoptosis, optimal cytokine signaling during human natural killer cell development, hepatic regeneration, gonadotropin-releasing hormone neuron survival and migration, platelet activation, or regulation of thrombotic responses. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two alternate exons, resulting in the loss of an in-frame segment in the central coding region, compared to variant 1. The resulting protein (isoform 3) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>