

Product datasheet for **MC222378**

Axl (NM_001190974) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axl (NM_001190974) 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: >MC222378 representing NM_001190974
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAGGGTCCCCTGGCCTGGTGGTTGGCGCTGTGCTGCTGGGGGTGTGCAGCCCATAGGACACAC
 AGACCGAGGCTGGCAGCCCGTTTGTGGGAACCCAGGGAATATCACAGGTGCCAGAGGACTCACGGGGAC
 ACTTCGGTGTGAGCTCCAGGTTACAGGGGAACCCCTGAGGTGGTGTGGCTTCGAGATGGACAGATCCTA
 GAACTGGCTGATAACACCAGACCCAGGTGCCTCTGGCGAAGACTGGCAAGATGAATGGAAAGTTGTCA
 GTCAGCTCAGAATCTCAGCCCTGCAACTTTCAGATGCAGGGGAGTACCAGTGTATGGTGCATCTAGAAGG
 ACGGACCTTTGTGTCTCAGCCGGGCTTTGTAGGGCTGGAAGGTCTCCCGTACTTCTGGAGGAGCCTGAG
 GACAAAGCTGTGCCTGCCAACCCCTTTCAACCTAAGCTGCCAGGCCAGGGACCCCGGAACCCGTGA
 CCCTACTCTGGCTTCAAGATGCTGTCCCTCGGCCAGTACAGGACACAGCTCCAGCACAGTCTGCA
 AACTCCAGGCCTGAACAAGACATCTTCTTCTCATGTGAAGCCACAATGCCAAGGGAGTACCACCTCC
 CGCACAGCCACCATCACAGTGTCCCCAGAGGCCTACCATCTCCACGTGGTTTTCCAGACAACCTACGG
 AGCTAGAGGTAGCTTGGACCCCTGGCCTGAGTGGCATCTACCCGCTCACCCACTGCAACCTGCAGGCCGT
 GCTGTCAGACGATGGGGTGGGTATCTGGCTGGGAAAGTCAAGTCTCCTGAAGACCCCTCACCTTGCAA
 GTATCAGTGCCCCCACCAGCTTCGGCTGGAAAAGTCTTCTCACACCCCGTATCACATCCGGATAT
 CCTGCAGCAGCAGCCAGGGCCCCCACCTTGGACCCACTGGCTTCTGTGGAGACCACAGAGGGAGTGCC
 CTTGGGTCCCCGTGAAACGTTAGCGCCATGCGGAATGGGAGCCAGGTCTCGTGCCTGGCAGGAGCCA
 AGGTGCCCTGCAAGGCACCTGTTAGGGTACCGCTGGCATAATCGAGGCCAGGACACCCCGAGGTAC
 TTATGGATATAGGGCTAACTCGAGAGGTGACCTTGGAACTGCGGGGGACAGGCCGTGGCTAACCTGAC
 TGTGTCTGTGACAGCCTATACCTCGGCTGGGGATGGGCCCTGGAGCCTTCTGTGCCCTAGAGCCCTGG
 CGCCAGTGAGTGAACCCACCTCGCGCCTTCTCGTGGCCTTGGTGGTATGACTGCTGGGAGCACTTG
 TGGCTGCCGCTGCGTCTCATCTTGGCCCTGTTCTTGTCCATCGGAGGAAGAAGGAGACTCGATATGG
 GGAGGTGTTTGGCCAAACCGTGGAAAGAGGTGAACTGGTAGTCAGGTACCGTGTCCGAAAGTCTACAGC
 CGGCGGACCCTGAAGCCACCTTGAACAGTCTGGGCATCAGTGAAGAGCTGAAGGAGAACTACGAGACG
 TCATGGTAGATCGGCATAAGGTGGCCTTGGGAAGACCCTGGGAGAAGGAGAATTTGGCGCTGTGATGGA
 AGGTCAGCTCAATCAGGATGACTCCATCCTCAAGTCTGTGTAAGACCATGAAAATGGCATCTGCACA
 AGATCAGAGCTGGAGATTTCTGAGTGAAGTGTCTGCATGAAGGAATTTGACCACCCCAAGTATGA
 GGCTCATTGGCGTCTGTTTTAGGGCTCTGACAGAGAGGGTTCCAGAACCTGTGGTATCTTGCCTTT
 CATGAAACACGGAGACCTACACAGTTTCTCCTGTACTCCCGGCTCGGGGACCAGCCAGTGTTCCTGCCC
 ACTCAGATGCTAGTGAAGTTCATGGCCGACATTGCCAGTGGTATGGAGTACCTGAGTACCAAGAGATTCA
 TACATCGGGACCTGGCTGCCAGGAACTGCATGCTGAATGAGAACATGTCCGTGTGTGGCAGACTTCGG
 GCTCTCCAAGAAGATCTACAACGGGATTACTACCGCCAAGGGCGCATTGCCAAGATGCCAGTCAAGTGG
 ATTGCTATTGAGAGTCTGGCAGATCGGGTCTACACCAGCAAGAGCGATGTGTGGTCTTCGGTGTGACAA
 TGTGGGAGATCGCCACCCGAGGCCAACTCCCTATCCAGGGTGGAGAACAGTGAATTTACGACTACCT
 CGGTCAAGGAAATCGGCTGAAACAGCCTGTGGACTGTCTGGACGGCCTGTATGCCCTGATGTCTCGGTG
 TGGGAACTGAACCTCGAGACCGCCAAGTTTTGCGGAGCTCCGGGAAGACTTGGAGAACACACTGAAGG
 CTCTGCCCTGCTCAGGAGCCAGATGAAATCCTCTATGTCAACATGGATGAGGGCGGAAGCCACCTTGA
 ACCCCGTGGGGTCTGGAGGAGCTGACCCCCAACCAACCTGATCCTAAGGATTCCTGTAGTGTCTC
 ACTGCAGCTGACCTCAGCTGGACGCTATGTCTTTGCTCTTCTACAGCCCAGGACCCACTCTGT
 CTGCTGACAGAGGCTGCCAGCACCTCCAGGGCAGGAGGAGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001190974
Insert Size: 2640 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001190974.1, NP_001177903.1</u>
RefSeq Size:	5057 bp
RefSeq ORF:	2640 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 (2) lacks an in-frame exon in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and 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>