

Product datasheet for **MC222408**

Axl (NM_009465) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axl (NM_009465) 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: >MC222408 representing NM_009465
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAGGGTCCCCTGGCCTGGTGGTTGGCGCTGTGCTGCTGGGGGTGTGCAGCCCATAGGACACAC
 AGACCGAGGCTGGCAGCCGTTTGTGGGAACCCAGGGAATATCACAGGTGCCAGAGGACTCACGGGGAC
 ACTTCGGTGTGAGCTCCAGGTTACAGGGGAACCCCTGAGGTGGTGTGGCTTCGAGATGGACAGATCCTA
 GAACTGGCTGATAACACCCAGACCCAGGTGCCTCTGGGCGAAGACTGGCAAGATGAATGGAAAGTTGTCA
 GTCAGCTCAGAATCTCAGCCCTGCAACTTTCAGATGCAGGGGAGTACCAGTGTATGGTGCATCTAGAAGG
 ACGGACCTTTGTGTCTCAGCCGGGCTTTGTAGGGCTGGAAGGTCTCCCGTACTTCTGGAGGAGCCTGAG
 GACAAAGCTGTGCCTGCCAACACCCCTTCAACCTAAGCTGCCAGGCCAGGGACCCCGGAACCCGTGA
 CCCTACTCTGGCTTCAAGATGCTGTCCCTGGCCCCAGTACAGGACACAGCTCCAGCACAGTCTGCA
 AACTCCAGGCCTGAACAAGACATCTTCTTCTCATGTGAAGCCACAATGCCAAGGGAGTACCACCTCC
 CGCACAGCCACCATCACAGTGTCCCCAGAGGCCTACCATCTCCACGTGGTTTCCAGACAACCTACGG
 AGCTAGAGGTAGCTTGGACCCCTGGCCTGAGTGGCATCTACCCGCTCACCCACTGCAACCTGCAGGCCGT
 GCTGTCAGACGATGGGGTGGTATCTGGCTGGGAAAGTCAGATCCTCCTGAAGACCCCTCACCTTGCAA
 GTATCAGTGCCCCCACCAGCTTCGGCTGGAAAAGTCTTCTCACACCCCGTATCACATCCGGATAT
 CCTGCAGCAGCAGCCAGGGCCCCACCTTGGACCCACTGGCTTCTGTGGAGACCACAGAGGGAGTGCC
 CTTGGGTCCCCCTGAGAAGCTTAGCGCCATGCGGAATGGGAGCCAGGTCTCGTGCCTGGCAGGAGCCA
 AGGTGCCCTGCAAGGCACCCCTGTTAGGGTACCGCTGGCATACTGAGGCCAGGACACCCCGAGGTAC
 TTATGGATATAGGGCTAACTCGAGAGGTGACCTTGGAACTGCGGGGGGACAGGCCCTAGGCTAACCTGAC
 TGTGTCTGTGACAGCCTATACCTCGGCTGGGGATGGGCCCTGGAGCCTTCTGTGCCCTAGAGCCCTGG
 CGCCAGGGCAAGGACAGCCACTCCACCATCTGGTGTGAGTGAACCCCACTCGCGCCTTCTCGTGGCCTT
 GGTGGTATGTAAGTGTGGAGCACTTGTGGCTGCCGCCTGCGTCTCATCTTGGCCCTGTTCTTGTCCA
 TCGGAGGAAGAAGGAGACTCGATATGGGGAGGTGTTTGGCCAAACCGTGGAAAGAGGTGAACTGGTGTG
 AGGTACCGTGTCCGAAAGTCTACAGCCGGCGGACCCTGAAGCCACCTTGAACAGTCTGGGCATCAGTG
 AAGAGCTGAAGGAGAACTACGAGACGTCATGGTGTAGTCCGCATAAGGTGGCCTTGGGGAAGACCCTGGG
 AGAAGGAGAATTTGGCGCTGTGATGGAAGGTGAGTCAATCAGGATGACTCCATCCTCAAGTGTGCTGTG
 AAGACCATGAAAATTGCCATCTGCAACAAGATCAGAGCTGGAGATTTCTGAGTGAAGCTGTCTGCATGA
 AGGAATTTGACCACCCCAACGTCATGAGGCTCATTGGCGTCTGTTTTAGGGCTCTGACAGAGAGGGTTT
 CCCAGAACCTGTGGTCTCTTGCCTTTCATGAAACACGGAGACCTACACAGTTTCTCTGTACTCCCGG
 CTCGGGGACCAGCCAGTGTCTGCCCCTCAGATGCTAGTGAAGTTCATGGCCGACATTGCCAGTGGTA
 TGGAGTACCTGAGTACCAAGAGATTCAATACATCGGGACCTGGCTGCCAGGAACTGCATGTGAATGAGAA
 CATGTCCGTGTGTGGCAGACTTCGGGCTCTCCAAGAAGATCTACAACGGGGATTACTACCGCCAAGGG
 CGCATTGCCAAGATGCCAGTCAAGTGGATTGCTATTGAGAGTCTGGCAGATCGGGTCTACACCAGCAAGA
 GCGATGTGTGGTCTTCCGGTGTGACAATGTGGGAGATCGCCACCCGAGGCCAACTCCCTATCCAGGGGT
 GGAGAACAGTGAATTTACGACTACCTGGCTCAAGGAAATCGGCTGAAACAGCCTGTGGACTGTCTGGAC
 GGCTGTATGCCCTGATGTCTCGGTGCTGGGAACTGAACCTCGAGACCGCCAAGTTTTGCGGAGCTCC
 GGAAGACTTGGAGAACAACACTGAAGGCTCTGCCCTGCTCAGGAGCCAGATGAAATCCTCTATGTCAA
 CATGGATGAGGGCGGAAGCCACCTTGAACCCCGTGGGGCTGCTGGAGGAGCTGACCCCCAACCAACCT
 GATCCTAAGGATTCCTGTAGCTGTCTCACTGCAGCTGACGTCCACTCAGCTGGACGCTATGCTCTTGTG
 CTTCTACAGCCCCAGGACCCACTCTGTCTGCTGACAGAGGCTGCCAGCACCTCCAGGGCAGGAGGACGG
 AGCCTGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009465

Insert Size:	2667 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:	BC046618 , AAH46618
RefSeq Size:	4163 bp
RefSeq ORF:	2667 bp
Locus ID:	26362
UniProt ID:	Q00993
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 (1) represents the longest transcript and encodes the longest 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>