

Product datasheet for **MR211073**

Axl (NM_009465) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axl (NM_009465) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR211073 representing NM_009465
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAGGGTCCCCTGGCTGGTGGTTGGCGTGTGCTGCTGGGGGTGTGCAGCCATAAGGACACAC
 AGACCGAGGCTGGCAGCCGTTTGTGGGAACCCAGGGAATATCACAGGTGCCAGAGGACTCACGGGGAC
 ACTTCGGTGTGAGCTCCAGGTTACAGGGGAACCCCTGAGGTGGTGTGGCTTCGAGATGGACAGATCCTA
 GAACTGGCTGATAACACCCAGACCCAGGTGCCTCTGGGCGAAGACTGGCAAGATGAATGGAAAGTTGTCA
 GTCAGCTCAGAATCTCAGCCCTGCAACTTTCAGATGCAGGGGAGTACCAGTGTATGGTGCATCTAGAAGG
 ACGGACCTTTGTGTCTCAGCCGGGCTTTGTAGGGCTGGAAGGTCTCCCGTACTTCTGGAGGAGCCTGAG
 GACAAAGCTGTGCCTGCCAACACCCCTTCAACCTAAGCTGCCAGGCCAGGGACCCCGGAACCCGTGA
 CCCTACTCTGGCTTCAAGATGCTGTCCCTCGCCAGTACAGGACACAGCTCCAGCACAGTCTGCA
 AACTCCAGGCCTGAACAAGACATCTTCTTCTCATGTGAAGCCACAATGCCAAGGGAGTACCACCTCC
 CGCACAGCCACCATCACAGTGTCCCCAGAGGCCTACCATCTCCACGTGGTTTTCCAGACAACCTACGG
 AGCTAGAGGTAGCTTGGACCCCTGGCCTGAGTGGCATCTACCCGCTCACCCACTGCAACCTGCAGGCCGT
 GCTGTCAGACGATGGGGTGGTATCTGGCTGGGAAAGTCAGATCCTCCTGAAGACCCCTCACCTTGCAA
 GTATCAGTGCCCCCACCAGCTTCGGCTGGAAAAGTCTTCTCACACCCCGTATCACATCCGGATAT
 CCTGCAGCAGCAGCCAGGGCCCCCACCTTGGACCCACTGGCTTCTGTGGAGACCACAGAGGGAGTGCC
 CTTGGGTCCCCCTGAGAAGCTTAGCGCCATGCGGAATGGGAGCCAGGTCTCGTGCCTGGCAGGAGCCA
 AGGGTCCCCCTGCAAGGCACCCCTGTTAGGGTACCGCTGGCATAATCGAGGCCAGGACACCCCGAGGTAC
 TTATGGATATAGGGCTAACTCGAGAGGTGACCTTGGAACTGCGGGGGACAGGCCCTGGCTAACCTGAC
 TGTGTCTGTGACAGCCTATACCTCGGCTGGGGATGGGCCCTGGAGCCTTCTGTGCCCTAGAGCCCTGG
 CGCCAGGGCAAGGACAGCCACTCCACCATCTGGTGTGAGTGAACCCACCTCGCGCCTTCTCGTGGCCTT
 GGTGGTATGTAAGTGTGGAGCACTTGTGGCTGCCGCCTGCGTCTCATCTTGGCCCTGTTCTTGTCCA
 TCGGAGGAAGAAGGAGACTCGATATGGGGAGGTGTTTGTAGCCAACCGTGGAAAGAGGTGAACTGGTGTG
 AGGTACCGTGTCCGAAAGTCTACAGCCGGCGGACCCTGAAGCCACCTTGAACAGTCTGGGCATCAGTG
 AAGAGCTGAAGGAGAACTACGAGACGTATGGTGTAGTCCGCATAAGGTGGCCTTGGGGAAGACCCTGGG
 AGAAGGAGAATTTGGCGCTGTGATGGAAGGTGAGTCAATCAGGATGACTCCATCCTCAAGTGTGCTGTG
 AAGACCATGAAAATTGCCATCTGCAACAAGATCAGAGCTGGAGATTTCTGAGTGAAGCTGTCTGCATGA
 AGGAATTTGACCACCCCAACGTCATGAGGCTCATTGGCGTCTGTTTTAGGGCTCTGACAGAGAGGGTTT
 CCCAGAACCTGTGGTCTATCTTGCCTTTCATGAAACACGGAGACCTACACAGTTTCTCCTGTACTCCCGG
 CTCGGGGACCAGCCAGTGTCTTCCGCACTCAGATGCTAGTGAAGTTCATGGCCGACATTGCCAGTGGTA
 TGGAGTACCTGAGTACCAAGAGATTCAATACATCGGGACCTGGCTGCCAGGAACTGCATGTGAATGAGAA
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 CGCATTGCCAAGATGCCAGTCAAGTGGATTGCTATTGAGAGTCTGGCAGATCGGGTCTACACCAGCAAGA
 GCGATGTGTGGTCTTCCGGTGTGACAATGTGGGAGATCGCCACCCGAGGCCAACTCCCTATCCAGGGGT
 GGAGAACAGTGAATTTACGACTACCTGGCTCAAGGAAATCGGCTGAAACAGCCTGTGGACTGTCTGGAC
 GGCTGTATGCCCTGATGTCTCGGTGCTGGGAACTGAACCTCGAGACCGCCAAGTTTTGCGGAGCTCC
 GGAAGACTTGGAGAACAACACTGAAGGCTCTGCCCTGCTCAGGAGCCAGATGAAATCCTCTATGTCAA
 CATGGATGAGGGCGGAAGCCACCTTGAACCCCGTGGGGCTGCTGGAGGAGCTGACCCCCAACCAACCT
 GATCCTAAGGATTCCTGTAGCTGTCTCACTGCAGCTGACGTCCACTCAGCTGGACGCTATGCTCTTGTG
 CTTCTACAGCCCCAGGACCCACTCTGTCTGCTGACAGAGGCTGCCAGCACCTCCAGGGCAGGAGGACGG
 AGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211073 representing NM_009465
 Red=Cloning site Green=Tags(s)

MGRVPLAWWLALCCWGCAAHKDTQTEAGSPFVGNPGNITGARGLTGTLRCELQVQGEPEVVWLRDQGIL
 ELADNTQTQVPLGEDWQDEWKVVSQRLRISALQLSDAGEYQCMVHLEGRTFVVSQPGFVGLLEGLPYFLEEPE
 DKAVPANTPFNLSCQAQGPPEPVTLLWLQDAVPLAPVTGHSSQHSLSQTPGLNKTSSFCEAHNAKGVTTS
 RTATITVLPQRPHHLHVSRQPTELEVAVTPGLSGIYPLTHCNLQAVLSDDGVIWLGKSDPPEDPLTLQ
 VSVPPHQLRLEKLLPHTPYHIRISCSSSQGPSWTHWLPVETTEGVPLGPPENVSAMRNGSQVLVRWQEP
 RVPLQGTLLGYRLAYRGQDTPEVLMIDIGLTREVTLELRGDRPVANLTVSVTAYTSAGDGPWVSLPVPLEPW
 RPDGQQLHLLVSEPPPRAFSWPWWYVLLGALVAAACVLILALFLVHRRKKETRYGEVFPTVERGELVV
 RYRVRKYSRRTTEATLNSLGISEELKEKLRDVMVDRHKVALGKTLGEGEFGAVMEGQLNQDSDILKQVAV
 KTMKIAICTRSELEDFLSEAVCMKEFDHPNMRLIGVCFQGSDFREGFPEPVVILPFMKHGDLSHLLYSR
 LGDQPVFLPTQMLVKFMADIASGMEYLSTKRFIHRDLAARNMMLNENMSVCVADFGLSKKIYNGDYRQG
 RIAKMPVKWIAIESLADRVYTSKSDVWSFGVTMWEIATRGQTPYPGVENSEIYDYLQGNRLKQPDCLD
 GLYALMSRCWELNPRDRPSFAELREDLENTLKALPPAQEPDEILVYVMDEGGSHLEPRGAAGGADPPTQP
 DPKDSCSCLTAADVHSAGRYVLCSTAPGPTLSADRGCPAPPGQEDGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

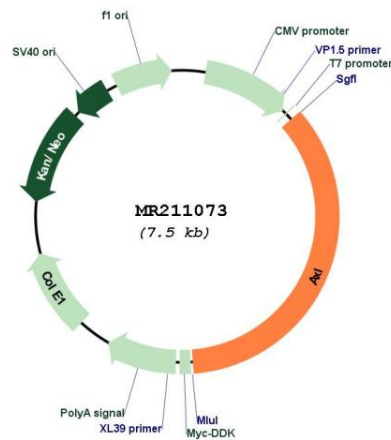


ACCN: NM_009465

ORF Size:	2664 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	NM_009465.4
RefSeq Size:	4119 bp
RefSeq ORF:	2667 bp
Locus ID:	26362
UniProt ID:	Q00993
Cytogenetics:	7 14.02 cM
MW:	98.6 kDa

Gene Summary:

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, AXL 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]

Product images:

Circular map for MR211073