

## Product datasheet for **MR222556**

### **Axl (NM\_001190974) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Axl (NM_001190974) 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:**

>MR222556 representing NM\_001190974  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAGGGTCCCCTGGCTGGTGGTGGCGTGTGCTGCTGGGGTGTGCAGCCATAAGGACACAC  
 AGACCGAGGCTGGCAGCCGTTTGTGGGAACCCAGGGAATATCACAGGTGCCAGAGGACTCACGGGGAC  
 ACTTCGGTGTGAGCTCCAGGTTACAGGGGAACCCCTGAGGTGGTGTGGCTTCGAGATGGACAGATCCTA  
 GAACTGGCTGATAACACCCAGACCCAGGTGCCTCTGGGCGAAGACTGGCAAGATGAATGGAAAGTTGTCA  
 GTCAGCTCAGAATCTCAGCCCTGCAACTTTCAGATGCAGGGGAGTACCAGTGTATGGTGCATCTAGAAGG  
 ACGGACCTTTGTGTCTCAGCCGGGCTTTGTAGGGCTGGAAGGTCTCCCGTACTTCTGGAGGAGCCTGAG  
 GACAAAGCTGTGCCTGCCAACCCCTTCAACCTAAGCTGCCAGGCCAGGGACCCCGGAACCCGTGA  
 CCCTACTCTGGCTTCAAGATGCTGTCCCTGGCCCCAGTACAGGACACAGCTCCAGCACAGTCTGCA  
 AACTCCAGGCCTGAACAAGACATCTTCTTCTCATGTGAAGCCACAATGCCAAGGGAGTACCACCTCC  
 CGCACAGCCACCATCACAGTGTCCCCAGAGGCTCACCATCTCCACGTGGTTTCCAGACAACCTACGG  
 AGCTAGAGGTAGCTTGGACCCCTGGCCTGAGTGGCATCTACCCGCTCACCCTGCAACCTGCAGGCCGT  
 GCTGTCAGACGATGGGGTGGTATCTGGCTGGGAAAGTCAGATCCTCCTGAAGACCCCTCACCTTGCAA  
 GTATCAGTGCCCCCACCAGCTTCGGCTGGAAAAGTCTTCTCACACCCCGTATCACATCCGGATAT  
 CCTGCAGCAGCAGCCAGGGCCCCCACCTTGGACCCACTGGCTTCTGTGGAGACCACAGAGGGAGTGCC  
 CTTGGGTCCCCCTGAGAAGCTTAGCGCCATGCGGAATGGGAGCCAGGTCTCGTGCCTGGCAGGAGCCA  
 AGGGTCCCCCTGCAAGGCACCTGTTAGGGTACCGCTGGCATAATCGAGGCCAGGACACCCCGAGGTAC  
 TTATGGATATAGGGCTAACTCGAGAGGTGACCTTGGAACTGCGGGGGACAGGCCCTGTGGCTAACCTGAC  
 TGTGTCTGTGACAGCCTATACCTCGGCTGGGGATGGGCCCTGGAGCCTTCTGTGCCCTAGAGCCCTGG  
 CGCCAGTGAGTGAACCCACCTCGCGCCTTCTCGTGGCCTTGGTGGTATGACTGCTGGGAGCACTTG  
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 GGAGGTGTTTGGCCAAACCGTGGAAAGAGGTGAACTGGTAGTCAGGTACCGTGTCCGAAAGTCTACAGC  
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 TCATGGTAGATCGGCATAAGGTGGCCTTGGGGAAGACCCTGGGAGAAGGAGAATTTGGCGCTGTGATGGA  
 AGGTCAGCTCAATCAGGATGACTCCATCCTCAAGTTCGCTGTGAAGACCATGAAAATGGCATCTGCACA  
 AGATCAGAGCTGGAGATTTCTGAGTGAAGCTGTCTGCATGAAGGAATTTGACCACCCCAAGTCAATGA  
 GGCTCATTGGCGTCTGTTTTAGGGCTCTGACAGAGAGGGTTTCCAGAACCTGTGGTCACTTGCCTTT  
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 ACTCAGATGCTAGTGAAGTTCATGGCCGACATTGCCAGTGGTATGGAGTACCTGAGTACCAAGAGATTCA  
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 TGTGGGAGATCGCCACCCGAGGCCAACTCCCTATCCAGGGTGGAGAACAGTGAATTTACGACTACCT  
 CGGTCAAGGAAAACCGCTGAAACAGCCTGTGGACTGTCTGGACGGCCTGTATGCCCTGATGTCTCGGTGC  
 TGGGAACTGAACCCTCGAGACCGCCAAGTTTTGCGGAGCTCCGGGAAGACTTGGAGAACACACTGAAGG  
 CTCTGCCCTGCTCAGGAGCCAGATGAAATCCTCTATGTCAACATGGATGAGGGCGGAAGCCACCTTGA  
 ACCCGTGGGGCTGCTGGAGGAGCTGACCCCCAACCAACCTGATCCTAAGGATTCCTGTAGTGTCTC  
 ACTGCAGCTGACCTCAGCTGGACGCTATGTCTTTGCTCTTCTACAGCCCCAGGACCCACTCTGT  
 CTGCTGACAGAGGCTGCCAGCACCTCCAGGGCAGGAGGACGGAGCC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222556 representing NM\_001190974  
 Red=Cloning site Green=Tags(s)

MGRVPLAWWLALCCWGCAAHKDTQTEAGSPFVGNPGNITGARGLTGTLRCELQVQGEPEVVWLRDQIIL  
 ELADNTQTQVPLGEDWQDEWKVVSQRLRISALQLSDAGEYQCMVHLEGRTFVVSQPGFVGLLEGLPYFLEEPE  
 DKAVPANTPFNLSCQAQGPPEPVTLWLQDAVPLAPVTGHSSQHSLSQTPGLNKTSSFCEAHNAKGVTTSS  
 RTATITVLPQRPHHLHVVSQRQTELEVAVTPGLSGIYPLTHCNLQAVLSDDGVIWLGKSDPPEDPLTLQ  
 VSVPPHQLRLEKLLPHTPYHIRISCSQQSPWTHWLPVETTEGVPLGPPENVSAMRNGSQVLRVWQEP  
 RVPLQGTLLGYRLAYRGQDTPEVLMIDIGLTREVTLELRGDRPVANLTVSVTAYTSAGDGPWVSLPVLEPW  
 RPVSEPPPRAFSWPWWYVLLGALVAAACVLILALFLVHRRKKETRYGEVFEPTVERGELVVRVVRKSYS  
 RRTTEATLNSLGISEELKEKLRDVMVDRHKVALGKTLGEGEFGAVMEGQLNQDSSILKVAVKTMKIAICT  
 RSELEDFLSEAVCMKEFDHPNMRLIGVCFQGS DREGFPPEVVILPFMKHGDLHSFLLYSRLGDQPVFLP  
 TQMLVKFMADIASGMEYLSTKRFIHRDLAARNMMLNENMSVCVADFGLSKKIYNGDYRQGRIAKMPVKW  
 IAIESLADRVTYSKSDVVSFGVTMWEIATRGQTPYPGVENSEIYDYL RQGNRLKQPVDCLDGLYALMSRC  
 WELNPRDRPSFAELREDLENTL KALPPAQEPDEILYVNMDEGGSHLEPRGAAGGADPPTQPPDKDSCSCL  
 TAADVHSAGRYVLC PSTAPGPTLSADRGCPAPPQEDGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

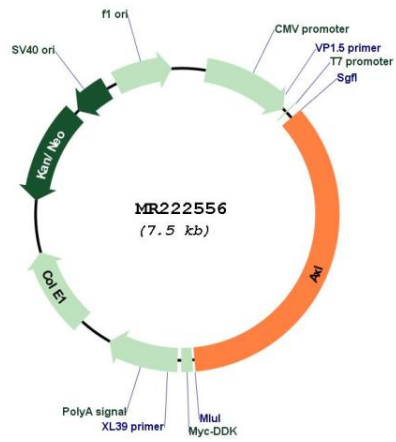
Sgfl-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001190974
<b>ORF Size:</b>	2637 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001190974.1</a> , <a href="#">NP_001177903.1</a>
<b>RefSeq Size:</b>	5057 bp
<b>RefSeq ORF:</b>	2640 bp
<b>Locus ID:</b>	26362
<b>Cytogenetics:</b>	7 14.02 cM
<b>MW:</b>	97.7 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR222556