

## Product datasheet for **MG222558**

### **Axl (NM\_001190975) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Axl (NM_001190975) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Axl
Synonyms:	AI323647; Ark; Tyro7; Ufo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222558 representing NM\_001190975  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAGGGTCCCCTGGCCTGGTGGTTGGCGCTGTGCTGCTGGGGGTGTGCAGCCCATAAGGACACAC  
 AGACCGAGGCTGGCAGCCGTTTGTGGGAACCCAGGGAATATCACAGGTGCCAGAGGACTCACGGGGAC  
 ACTTCGGTGTGAGCTCCAGGTTACAGGGGAACCCCTGAGGTGGTGTGGCTTCGAGATGGACAGATCCTA  
 GAACTGGCTGATAACACCAGACCCAGGTGCCTCTGGGCGAAGACTGGCAAGATGAATGGAAAGTTGTCA  
 GTCAGCTCAGAATCTCAGCCCTGCAACTTTCAGATGCAGGGGAGTACCAGTGTATGGTGCATCTAGAAGG  
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 GACAAAGCTGTGCCTGCCAACACCCCTTCAACCTAAGCTGCCAGGCCAGGGACCCCGGAACCCGTGA  
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 GCGGAAGCCACCTTGAACCCCGTGGGGCTGCTGGAGGAGCTGACCCCAACCAACCTGATCCTAAGGA  
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**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

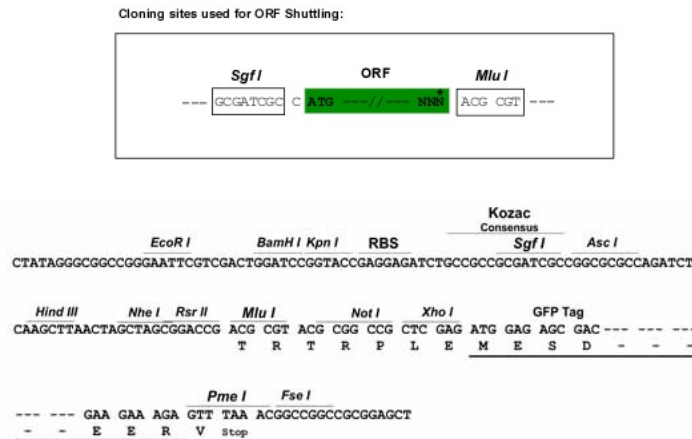
**Protein Sequence:** >MG222558 representing NM\_001190975  
Red=Cloning site Green=Tags(s)

```
MGRVPLAWWLALCCWGCAAHKDTQTEAGSPFVGNPGNITGARGLTGTLRCELQVQGEPEVVWLRDQGIL
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VSVPPHQLRLEKLLPHTPYHIRISCSSSQGPPSWTHWLPVETTEGGQGPLHHLVSEPPRAF SWPWWYV
LLGALVAAACVLILALFLVHRRKKETRYGEVFEPTEVERGELVVRYRVRKSYSRRTTEATLNSLGISEELK
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SFGVTMWEIATRGTPTYPGVENSEIYDYL RQGNRLKQVDCLDGLYALMSRCWELNPRDRPSFAELREDL
ENTL KALPPAQEPDEILVYVMDEGGSHLEPRGAAGGADPPTQPDPKDCSCLTAADVHSAGRYVLC PSTA
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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001190975

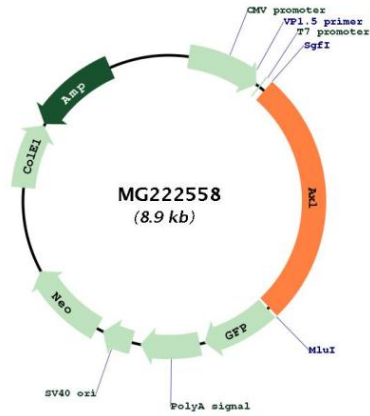
**ORF Size:** 2373 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** 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>	<u>NM_001190975.1, NP_001177904.1</u>
<b>RefSeq Size:</b>	4793 bp
<b>RefSeq ORF:</b>	2376 bp
<b>Locus ID:</b>	26362
<b>Cytogenetics:</b>	7 14.02 cM
<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 MG222558