

## Product datasheet for **RC600072**

### AXL (NM\_021913) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AXL (NM_021913) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	AXL
Synonyms:	ARK; JTK11; Tyro7; UFO
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RC600072 representing leader sequence plus the extracellular domain region of NM\_021913

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG  
CGATCGCC

ATGGCGTGGCGGTGCCCCAGGATGGGCAGGGTCCCGCTGGCTGGTGGCTTGGCGTGTGGCGCTGGGCGT  
GCATGGCCCCCAGGGGCACGCAGGCTGAAGAAAGTCCCTTCGTGGGCAACCCAGGAATATCACAGGTGC  
CCGGGGACTCACGGGCACCCCTTCGGTGTGACTCCAGGTTAGGGAGAGCCCCCGAGGTACATTGGCTT  
CGGGATGGACAGATCCTGGAGCTCGCGGACAGCACCCAGACCCAGGTGCCCTGGGTGAGGATGAACAGG  
ATGACTGGATAGTGGTACGCCAGCTCAGAATCACCTCCCTGCAGCTTCCGACACGGGACAGTACCAGTG  
TTTGGTGTTCCTGGGACATCAGACCTTCGTGTCCAGCCTGGCTATGTTGGGCTGGAGGGCTTGCCTTAC  
TTCTGGAGGAGCCGAAGACAGGACTGTGGCCGCAACACCCCTTCAACCTGAGCTGCCAAGCTCAGG  
GACCCCAAGAGCCGTGGACCTACTCTGGCTCCAGGATGTGTCCCTGGCCACGGCTCCAGGTACCGG  
CCCCCAGCGCAGCTGCATGTTCCAGGGCTGAACAAGACATCCTTTCTCTGCGAAGCCCATACGCC  
AAGGGGTCAACACATCCCGCACAGCCACCATCACAGTGTCCCCCAGCAGCCCCGTAACCTCCACCTGG  
TCTCCCGCAACCCACGGAGCTGGAGGTGGCTTGGACTCCAGGCCTGAGCGGCATCTACCCCTGACCCA  
CTGCACCTGCAGGCTGTGCTGTGACAGATGGGATGGGCATCCAGGCGGGAGAACCAGACCCCCCAGAG  
GAGCCCTCACCTCGCAAGCATCCGTGCCCCCATCAGCTTCGGCTAGGCAGCTCCATCTCACACCC  
CTTATCACATCCGCGTGGCATGCACCAGCAGCCAGGGCCCTCATCTGGACCCACTGGCTTCTGTGGA  
GACCCCGAGGGAGTCCCTGGGCCCCCTGAGAACATTAGTGTACCGGGAATGGGAGCCAGGCCTTC  
GTGCATTGGCAAGAGCCCCGGGCCCCCTGCAGGGTACCCTGTTAGGGTACCGGCTGGCGTATCAAGGCC  
AGGACACCCAGAGGTGCTAATGGACATAGGGCTAAGGCAAGAGGTGACCCTGGAGCTGCAGGGGACCG  
GTCTGTGTCCAATCTGACAGTGTGTGTGACAGCTACACTGCTGTGGGATGGACCCTGGAGCCTCCCA  
GTACCCCTGGAGGCTGGCGCCAGGGCAAGCACAGCCAGTCCACCAGCTGGTGAAGGAACCTTCAACTC  
CTGCCTTCTCGTGGCCCTGGTGG

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA

**Protein Sequence:**

>RC600072 representing signal peptide plus the extracellular domain region of NM\_021913

Red=Cloning sites Green= DDK and 6XHIS Tags

MAWRCPMRGRVPLAWCLALCGWACMAPRGTAEEESPFVGNPNITGARGLTGTLRCLQVQGEPEVHWL  
RDGQILELADSTQTQVPLGEDEQDDWIVVSQLRITSLQLSDTGQYQCLVFLGHQTFVSPQGYVGLLEGLPY  
FLEEPEDRTVAANTPFNLSCQAQGPPEPVDLLWLQDAVPLATAPGHGQPSLHVPGLNKTSFSCEAHNA  
KGVTTSRATITVLPQQPRNLHLVSRQPTELEVAVTPGLSGIYPLTHCTLQAVLSDDGMIQAGEPDPE  
EPLTSQASVPPHQLRLGSLHPHTPYHIRVACTSSQGPSSWTHWLPVETPEGVPLGPPENISATRNGSQAF  
VHWQEPAPLQGTLLGYRLAYQGQDTPVELMDIGLRQEVTLLELQGDGVSNSLTVCVAAAYTAAGDGPWVSLP  
VPLEAWRPGQAQPVHQLVKEPSTPAFVSWPWW

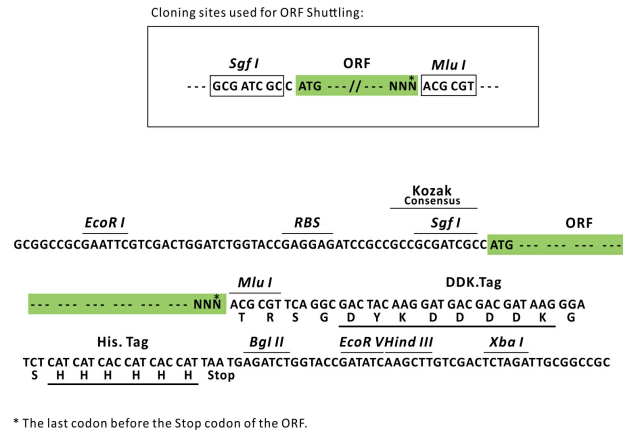
TRSGTRSGDYKDDDDKGSHHHHHH

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8117\\_h10.zip](https://cdn.origene.com/chromatograms/mk8117_h10.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


<b>ACCN:</b>	NM_021913
<b>ORF Size:</b>	1353 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 extra cellular domain of the protein 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_021913.4</a> , <a href="#">NP_068713.2</a>
<b>RefSeq Size:</b>	4750 bp
<b>RefSeq ORF:</b>	2685 bp
<b>Locus ID:</b>	558
<b>UniProt ID:</b>	<a href="#">P30530</a>
<b>Cytogenetics:</b>	19q13.2

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**MW:** 49 kDa

**Gene Summary:** The protein encoded by this gene is a member of the Tyro3-Axl-Mer (TAM) receptor tyrosine kinase subfamily. The encoded protein possesses an extracellular domain which is composed of two immunoglobulin-like motifs at the N-terminal, followed by two fibronectin type-III motifs. It transduces signals from the extracellular matrix into the cytoplasm by binding to the vitamin K-dependent protein growth arrest-specific 6 (Gas6). This gene may be involved in several cellular functions including growth, migration, aggregation and anti-inflammation in multiple cell types. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]