

Product datasheet for **RC206431**

AXL (NM_021913) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AXL (NM_021913) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AXL
Synonyms:	ARK; JTK11; Tyro7; UFO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC206431 representing NM_021913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTGGCGGTGCCCCAGGATGGCAGGGTCCCCTGGCTGGCTGGCTGGCGCTGCGGCTGGCGCT
 GCATGGCCCCAGGGGCACGCAGGCTGAAGAAAGTCCCTTCGTGGCAACCCAGGGAATATCACAGGTGC
 CCGGGGACTCACGGGCACCCCTTCGGTGTGACTCCAGGTTACAGGAGAGCCCCGAGGTACATTGGCTT
 CGGGATGGACAGATCCTGGAGCTCGCGGACAGCACCCAGACCCAGGTGCCCTGGGTGAGGATGAACAGG
 ATGACTGGATAGTGGTACGCCAGCTCAGAATCACCTCCCTGCAGCTTCCGACACGGGACAGTACCAGTG
 TTTGGTGTTCCTGGGACATCAGACCTTCGTGTCCAGCCTGGCTATGTTGGGCTGGAGGGCTTGCCTTAC
 TTCCTGGAGGAGCCGAAGACAGGACTGTGGCCGCAACACCCCTTCAACCTGAGCTGCCAAGCTCAGG
 GACCCCCAGAGCCCGTGGACCTACTCTGGCTCCAGGATGCTGTCCCCTGGCCACGGCTCCAGGTACGG
 CCCCCAGCGCAGCTGCATGTTCCAGGGTGAACAAGACATCCTCTTTCCTGCGAAGCCATAACGCC
 AAGGGGGTCAACCATCCCGCACAGCCACCATCACAGTGTCCCCAGCAGCCCGTAACCTCCACCTGG
 TCTCCCGCAACCCACGGAGCTGGAGGTGGCTGGACTCCAGGCCTGAGCGGCATCTACCCCTGACCCA
 CTGCACCTGCAGGCTGTGCTGTGACAGCATGGGATGGGCATCCAGGCGGGAGAACCAGACCCCCAGAG
 GAGCCCCACCTCGCAAGCATCCGTGCCCCCCATCAGCTTCGGCTAGGCAGCTCCATCCTCACACCC
 CTTATCACATCCGCGTGGCATGCACCAGCAGCCAGGGCCCTCATCTGGACCCACTGGCTTCTGTGGA
 GACGCCGAGGGAGTGCCCTGGGCCCCCTGAGAACATTAGTGTACCGGGAATGGGAGCCAGGCTTC
 GTGCATTGGCAAGAGCCCCGGCGCCCTGCAGGGTACCCTGTTAGGGTACCGCTGGCGTATCAAGGCC
 AGGACACCCAGAGGTGCTAATGGACATAGGGCTAAGGCAAGAGGTGACCCTGGAGCTGCCAGGGACGG
 GTCTGTGTTCAAATCTGACAGTGTGTGGCAGCCTACACTGCTGTGGGATGGACCTGGAGCCTCCCA
 GTACCCCTGGAGGCTGGCGCCAGGGCAAGCACAGCCAGTCCACCAGCTGGTGAAGGAACCTTCAACTC
 CTGCCCTCTCGTGGCCCTGGTGTATGTACTGCTAGGAGCAGTGTGGCCGCTGCCTGTGTCTCATCTT
 GGCTCTCTTCTGTCCACCGCGAAAGAAGGAGACCCGTTATGGAGAAGTGTGTAACCAACAGTGGA
 AGAGGTGAACTGGTAGTCAGGTACCGCTGCGCAAGTCTACAGTGTGGGACTGAGCTACCTTGA
 ACAGCTTGGGCATCAGTGAAGAGCTGAAGGAGAAGCTGCGGGATGTGATGGTGGACCGGCACAAGGTGGC
 CCTGGGAAGACTCTGGGAGAGGAGAGTTTGGAGCTGTGATGGAAGGCCAGCTCAACCAGGACGACTCC
 ATCCTCAAGTGGCTGTGAAGACGATGAAGATTGCCATCTGCACGAGTCAAGCTGGAGGATTTCTGA
 GTGAAGCGGTCTGCATGAAGGAATTTGACCATCCAACGTCATGAGGCTCATCGGTGTCTTTCCAGGG
 TTCTGAACGAGAGAGCTTCCCAGCACCTGTGGTCACTTACCTTTCATGAAACATGGAGACCTACACAGC
 TTCTCTCTATTCCCGCTCGGGGACCAGCCAGTGTACCTGCCACTCAGATGCTAGTGAAGTTATGG
 CAGACATCGCCAGTGGCATGGAGTATCTGAGTACCAAGAGATTATACACCGGGACTGGCGGCCAGGAA
 CTGCATGCTGAATGAGAACATGTCCGTGTGTGGCGGACTTCGGGCTCTCCAAGAAGATCTACAATGGG
 GACTACTACCGCCAGGGACGATCGCCAAGATGCCAGTCAAGTGGATTGCCATTGAGAGTCTAGCTGACC
 GTGTCTACACCAGCAAGAGCGATGTGTGGTCTTCGGGGTGACAATGTGGGAGATTGCCACAAGAGGCCA
 AACCCATATCCGGGCGTGGAGAACAGCGAGATTTACTACTCTGCGCCGGGAAATCGCCTGAAGCAG
 CCTGCGGACTGTCTGGATGGACTGTATGCCTTGTGTGCGGGTGTGGGAGCTAAATCCCGAGGACCGGC
 CAAGTTTTACAGAGCTGCGGGAAGATTTGGAGAACAACACTGAAGGCCCTGCCTCTGCCAGGAGCTGA
 CGAAATCCTCTATGTCAACATGGATGAGGGTGGAGTTATCCTGAACCCCTGGAGCTGCAGGAGGAGCT
 GACCCCCAACCCAGCCAGACCCTAAGGATTCCTGTAGCTGCCTCACTGCGGCTGAGGTCCATCCTGCTG
 GACGCTATGTCTCTGCCCTCCACAACCCCTAGCCCCGCTCAGCCTGCTGATAGGGGCTCCCCAGCAGC
 CCCAGGGCAGGAGGATGGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206431 representing NM_021913
 Red=Cloning site Green=Tags(s)

MAWRCPRMGRVPLAWCLALCGWACMAPRGTAEEPSFVGNPNITGARGLTGTLRCQLVQVQGPPEVHWL
 RDGQILELADSTQTVPLGEDEQDDWIVVSQLRITSLQLSDTGQYQCLVFLGHQTFVVSQPGYVGLLEGLPY
 FLEEPEDRTVAANTPFNLSCQAQGPPEVDLLWLQDAVPLATAPGHGQPSLHVPGLNKTSFSCEAHNA
 KGVTTSRATITVLPQQPRNLHLVSRQPTLEVAVWTPGLSGIYPLTHCTLQAVLSDDGMGIQAGEPDPPE
 EPLTSQASVPPHQLRLGSLHPHTPYHIRVACTSSQGPSSWTHWLPVETPEGVPLGPPENISATRNGSQAF
 VHWQEPRAPLQGTLLGYRLAYQGDTPVELMDIGLRQEVTLLELQGDGVSNNLTVCAAYTAAGDGPWSLP
 VPLEAWRPGQAQPVHQLVKEPSTPAFSWPWWYVLLGAVVAAACVLILALFLVHRRKKETRYGEVFEPTVE
 RGELVVRYRVRKSYSRRTTEATLNSLGISEELKEKLRDVMVDRHKVALGKTLGEGEFGAVMEGQLNQDDS
 ILKVAVKTMKIAICTRSELEDFLSEAVCMKEFDHPNVMRLIGVCFQGSERESFPAPVVILPFMKHGLHS
 FLLYSRLGDQPVYLPTQMLVKFMADIASGMEYLSTKRFIHRDLAARNCMLNENMSVCVADFGLSKKIYNG
 DYYRQGRIAKMPVKWIAIESLADRVTYSKSDVWSFGVTMWEIATRGQTPYGVENSEIYDYLRRGNRLKQ
 PADCLDGLYALMSRCWELNPQDRPSFTELREDLENTLKKALPPAQEPDEILYVNMDEGGGYPEPPGAAGGA
 DPPTQDPDKDSCSCLTAAEVHPAGRYVLCPSSTTPSPAQPADRGSPAAPGQEDGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2867_c05.zip

Restriction Sites: SgfI-MluI

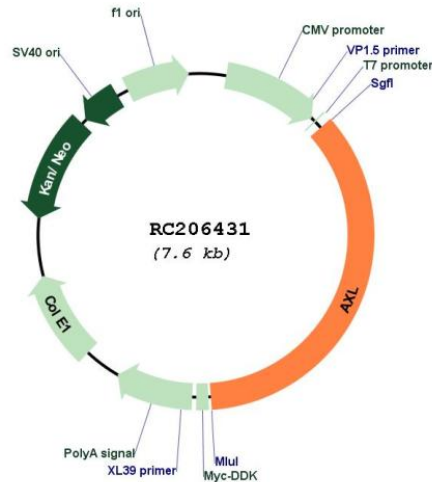
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_021913

ORF Size: 2682 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.

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:

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_021913.5](#)

RefSeq Size: 5014 bp

RefSeq ORF: 2685 bp

Locus ID: 558

UniProt ID: [P30530](#)

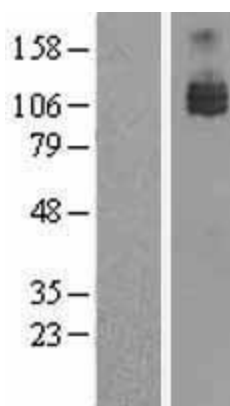
Cytogenetics: 19q13.2

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

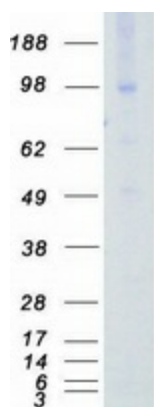
MW: 98.2 kDa

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]

Product images:



Western blot validation of overexpression lysate (Cat# [LY411883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206431 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AXL protein (Cat# [TP306431]). The protein was produced from HEK293T cells transfected with AXL cDNA clone (Cat# RC206431) using MegaTran 2.0 (Cat# [TT210002]).