

Product datasheet for **MG220456**

Adamtsl4 (NM_144899) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adamtsl4 (NM_144899) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adamtsl4
Synonyms:	ADAMTSL-4; Tsr; Tsrc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220456 representing NM_144899 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATCTTGGCTGGGCAGGCTCTGGCTGTGTATGATGCTGCTCCTGCCTCTCCCTCAGCCCTGCCAGG
ATCAGGAGCTGTTTGGACCTTCTCATCAGCTGCCATCAGAGGAGGGCCAGGTCCCTGAAGCCCTCTGGG
ACCTTGGGGTCGATGGGTTCTGCTCCAGCCCTGTGGGTGGGGTGCAGCGCAGGAGCCGAACATGT
GAACTGCACCCAGCCCTACCCCTCCCTCCCGACCCCAAGACATCCAGAAGCCACCGGCCCGCGCC
AGGGCTCCAGACCCAGACTCCACGGGATCCCCAGTCTCTGTATAGGCCACAGCCTCGGGGAAGGGTGG
CCCTCTTCGAGCTCCTGCTTCTCAAGTGGGGAGAGAGAAACCCAGGAGCCTCAAGGGGCCAGAGGTTT
CGGGTTCGAGACCCATCAAGCCAGGGATGTTCCGTTATGGGAGAGTGCCTTTTGCCTTGCCTCTGCACC
GGAGCCGACGGCATCCTCACAGACCCGGCAACCCAAGAATCTTCTACAGGGGAAGGGATGGTTCATC
CCAGCCTCCAAGCACAGAGCTGGCCTCTGAAAAGCACGGCCCTCATATGCAGCCCTGAACCCGTTCT
CACTCAGCTGAACTCCAAGTCTGGAAGTCTCAGACAGAAGTCTCCCAAGTCTGCTCCTTCTGCTCCT
CCTACACAGGGACCCCTGCACCTACCTCCTCCTTGGAGACAGTGGTCTTCCAGGGATCCCTTGGGCC
ACGAATGCCACCTTCCCGGGAAGTGGAGCAGTCCCCAGGGAGCAGAGCGACACCCACCTCCTTTCT
TCTCCTGCCCGGAGCCAGCAGAGCAGGAGGCACTGGAGACCTCCAGTCTCACAGGTCACAGTCCCCAGAT
GCTGGCTGCCCTGACAAGAGACTCCAGCCACTCTGGAGCATCTTGGTCCAGTATCCCTGCTCCAAA
CTGTTCTGGGAAAGTGAACAGATGCGAGCCTGCAGCCAGGAGCCTTGCCCCCTGAGCAGCCAGACCCC
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CTCCGAGGGCCTGGGGCCGCTCCATTATCAATGGGAAGTGGGCTGTGGATCCTCCAGGGTCTATACAG
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 CCCTGCAACAGCAACCTGCAACCAGCAGCAGATGACCAATGCAAGGACAGCTCTCCACTGCCCC
 TGGTGGTACAGGCCCGGCTCTGCGTCTACCCCTACTACAACTACCTGCTGCCGCTCTTGTGCCATGT
 CCTGGAGCAGTCCAGCTGGAACCGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220456 representing NM_144899
 Red=Cloning site Green=Tags(s)

MESWLGRLLWLCMMLLLPLPQPCQDQELFGPSHQLPSEEGQVPEGLWGPWGRWASCSQPCGVGVQRRSRTC
 ELHPALPLPPRPPRHPEAHRPRRQGSRPQTPRDPQSLYRQPGRGGPLRAPASQVGREETQEPQGAQRF
 RVRDPIKPGMFGYGRVPFALPLHRSRRHPRPGQPKNSSTGEGMVPSQPPSTELASEKHGPHMQPPEPRS
 HSAETPRSGTAQTEVLPRTSSAPSYTGTPAPTSSFGDSRSFQGS LGPRMPPSPGSWSSPQGAERRHPPPF
 SPVPRSQQSRRHWRPPGPHRSPDGWLPLTRDSSPLWSIFAPSIPAPNCSGESEQMRACSQEPCEPPEQDP
 RALQCAAFDSQEFMQLYQWEPFTEVQGSQRCELNCRPRGFRFYVRHTEKVQDGTLCQPGSLDICVAGRC
 LSPGCDGVLGSGRRPDGCGVCGGDGSTCRLVSGNLTDRGGPLGYQKILWIPAGASHLHISQLRPSNYLA
 LRPGGGRSIIINGNWA VPPGYSYTAIGTVFYQYNRPPREEGKGESLSAEGPTTQPVDVYIMIFQEDNPGVYQ
 YVYISSPPAVLESPSTKPPALQPQPEMLRGEPLLPAPRPVAPGTLQRQVRIQVPPPTRVRTAMGSSAG
 YWKQVGHSECSASCGKGVWHPIFLCISRESGEELDEQSCAVGARPPASPEPCHGPPCPYWEAGWTSCS
 RSCGPGTQHRQLCRQEFGGGSSVPPERCGHLPRPNITQPCQLHLHCGHWEISSPWSQCSVRCGRGQRSR
 QVRCVGSNGDEVKQECASGPPPPSREACDMGPCTTAWFYSDWSSKCSAECGTGIQRRAVVCLRSGETL
 QGDPEAGSTEQGCPLRSRPPDMRACSLGPCERTWRWFTGPWSECSSECGSGTQHRDIICVSKLGAEFNVT
 SPSNCSHLRPPALQPCQGOACEDKWFSTLWSPCSRSCQGGMQTRETVQCLSGNQTLSSRCPHLRPSRKR
 PCNSQPCNQRPDDQCKDSSPHCLVQARLCVYPPYTTTCCRSCAHVLEQSLEPA

TRTRPLE - GFP Tag - V

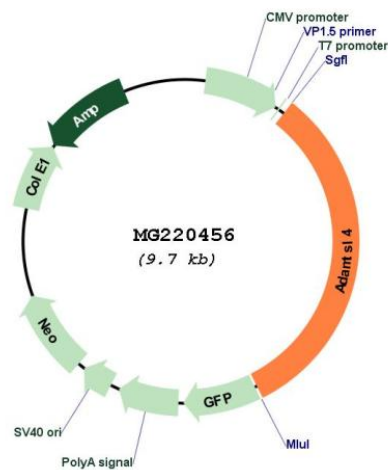
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144899

ORF Size: 3108 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:	<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_144899.2 , NP_659148.2
RefSeq Size:	3856 bp
RefSeq ORF:	3111 bp
Locus ID:	229595
UniProt ID:	Q80T21
Cytogenetics:	3 F2.1
Gene Summary:	The protein encoded by this gene is a member of the ADAMTS superfamily of secreted proteins, which contain a metalloprotease domain at the N-terminus and a C-terminal ancillary domain. ADAMTS-like proteins lack protease activity and resemble the ancillary domain of ADAMTS proteins. ADAMTS-like proteins have been implicated in regulation of the extracellular matrix. The encoded protein contains 7 thrombospondin type 1 repeats, a conserved extracellular domain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]