

Product datasheet for **MG223654**

Adam23 (NM_001177600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam23 (NM_001177600) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam23
Synonyms:	AW046396; MDC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG223654 representing NM_001177600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCCGCCCGCAGCATCTCCGGCGGCCGACCCGTGACGGTTGCAGCCTTCCGGCGCCTCCTGCG
 GCCCGCGCGCTGCCCGCGGCCCGGTGCCGGCCGCGCGCCGCTGCGCCTGCTCCTCGTCTTCT
 CCTGCTACCTGCGCTCGCCACCTCATCCCGGCCCGTGCCGGGGGCGCGCTGCGCCAGCGCTCCGCAC
 TGGAAATGAACTGCAGAAAAACCTGGGAGTCTTGGCAGATGAAGACAACACATTGCAACAAAATAGCA
 GCAGCAGAAATACCAGCTACAGCAGTGCAGTGCAGAAAGAAATCACACTGCCTTCAAGACTGGTGTATTA
 CATCAACCAGGACTCAGAAAGCCCTATCATGTTCTTGACACAAAGGCCAGACCAACAGAAACACAAT
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 CTGATGATGAGAAAAGCACAGGCCGACCACACATAATCCAGAAAACCTTGGCAGGACAGTATTCTAAGCA
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 AGATTATTCATCTCCCTCTCCACTGCAGCAGTAATCCACTTCCACAGTTCAGAAAGGAGGCACACAGG
 AATATATCCTTTTGCACAGAGATGCGCCATCCTGTGTGTACCACACTTTCAGAAGCATAT

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG223654 representing NM_001177600
Red=Cloning site Green=Tags(s)

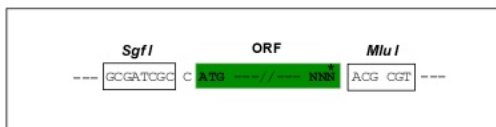
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KAVHLAQASFQIEAFGSKFILDLTLNGLLSSDYVEIHVEDGKQMYSKGGEHCYYHGSIRGVKDSRVALS
TCNGLHGMFEDDTFVYMIPELELTDDEKSTGRPHIIQKTLAQYQYKQMKNLSTDGSDQWPLLPELQWLRR
RKRAVNPSRGVFEEMKYLELMIVNDHKTYKHRSSHAHTNNAKSVVNLVDSIYKEQLNTRVVLVAVETW
TEKDHIDITINPVQMLHDFSKYRQRIKQHADAVHLISRVTFHYKRSSLSYFGGVC SRIRGVVNEYGLPM
AVAQVLSQSLAQN LGIQWEPSSRKPKECIESWGGCIMEETGVSHSRKFSKCSILEYRDFLQRGGGACLF
NRPTKLFEPTECGNGYVEAGEECDGCFHVECYGVCCCKCSL SNGAHCSDGPCCNNTSCLFQSRGYECRDA
VNSCDITEYCTGDSGQCPPNLHKQDGYSCNQNGRCYNGECKTRDNQCQYIWGTKAAGSDKFCYEKLNTE
GTEKGNCCKDGRWIPCSKHDFVCGFLLCTNL TRAPRIGQLQGEI IPTSFYHQGRVIDCSGAHVLLDDDT
DVG YVEDGTPCGPSMMCLDRKCLIQALNMSSCPLDSRGKVC SGHGVC SNEATCIDFTWAGTDCSIRDP
VRNPNPPKDEGPKGLYDSGFRSLQIIHLPSPTAAVIHFHSFRRRHTGIYPFATEMRHPVCTTLEAY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoR I BamH I Kpn I RBS Kozac Consensus Sgf I Asc I
CTATAGGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CCG CCG CTC GAG ATG GAG AGC GAC -----
 T R T R P L E M E S D - - -

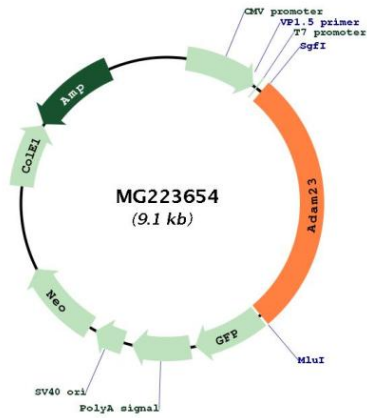
Pme I Fse I
- - - - GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - - E E R V Stop

ACCN: NM_001177600

ORF Size: 2511 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<u>NM_001177600.1</u> , <u>NP_001171071.1</u>
RefSeq Size:	2880 bp
RefSeq ORF:	2514 bp
Locus ID:	23792
Cytogenetics:	1 32.31 cM
Gene Summary:	This gene encodes a member of the disintegrin family of membrane-anchored proteins that play a role in diverse biological processes such as brain development, fertilization, tumor development and inflammation. The encoded protein undergoes proteolytic processing to generate a mature polypeptide comprised of an inactive metalloprotease and disintegrin domains. Transgenic disruption of this gene in mice results in postnatal neurological defects including tremor and ataxia resulting in death by 2 weeks of age. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG223654