OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG222765

ADAM23 (NM_003812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM23 (NM_003812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAM23
Synonyms:	MDC-3; MDC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG222765 representing NM_003812
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCCGCCCGGCAGCAGCTCGCGGCAGCCGCCCCTGGCGGGCTGCAGCCTTGCCGGCGCTTCCTGCG
GCCCCCAACGCGGCCCCGCCGGCTCGGTGCCTGCCAGCGCCCCGGCCCGCACGCCGCCCTGCCGCCTGCT
TCTCGTCCTTCTCCTGCTGCCTCCGCTCGCCGCCTCGTCCCGGCCCCGCGCCTGGGGGGCTGCTGCGCCC
AGCGCTCCGCATTGGAATGAAACTGCAGAAAAAAATTTGGGAGTCCTGGCAGATGAAGACAATACATTGC
AACAGAATAGCAGCAGTAATATCAGTTACAGCAATGCAATGCAGAAAGAAATCACACTGCCTTCAAGACT
CATATATTACATCAACCAAGACTCGGAAAGCCCTTATCACGTTCTTGACACAAAGGCAAGACACCAGCAA
AAACATAATAAGGCTGTCCATCTGGCCCAGGCAAGCTTCCAGATTGAAGCCTTCGGCTCCAAATTCATTC
TTGACCTCATACTGAACAATGGTTTGTTGTCTTCTGATTATGTGGAGATTCACTACGAAAATGGGAAACC
ACAGTACTCTAAGGGTGGAGAGCACTGTTACTACCATGGAAGCATCAGAGGCGTCAAAGACTCCAAGGTG
GCTCTGTCAACCTGCAATGGACTTCATGGCATGTTTGAAGATGATACCTTCGTGTATATGATAGAGCCAC
TAGAGCTGGTTCATGATGAGAAAAGCACAGGTCGACCACATATAATCCAGAAAACCTTGGCAGGACAGTA
TTCTAAGCAAATGAAGAATCTCACTATGGAAAGAGGTGACCAGTGGCCCTTTCTCTCTGAATTACAGTGG
TTGAAAAGAAGGAAGAGAGCAGTGAATCCATCACGTGGTATATTTGAAGAAATGAAATATTTGGAACTTA
TGATTGTTAATGATCACAAAACGTATAAGAAGCATCGCTCTTCTCATGCACATACCAACAACTTTGCAAA
GTCCGTGGTCAACCTTGTGGATTCTATTTACAAGGAGCAGCTCAACACCAGGGTTGTCCTGGTGGCTGTA
GAGACCTGGACTGAGAAGGATCAGATTGACATCACCACCAACCCTGTGCAGATGCTCCATGAGTTCTCAA
AATACCGGCAGCGCATTAAGCAGCATGCTGATGCTGTGCACCTCATCTCGCGGGTGACATTTCACTATAA
GAGAAGCAGTCTGAGTTACTTTGGAGGTGTCTGTTCTCGCACAAGAGGAGTTGGTGTGAATGAGTATGGT
CTTCCAATGGCAGTGGCACAAGTATTATCGCAGAGCCTGGCTCAAAACCTTGGAATCCAATGGGAACCTT
CTAGCAGAAAGCCAAAATGTGACTGCACAGAATCCTGGGGTGGCTGCATCATGGAGGAAACAGGGGTGTC
CCATTCTCGAAAATTTTCAAAGTGCAGCATTTTGGAGTATAGAGACTTTTTACAGAGAGGAGGTGGAGCC
TGCCTTTTCAACAGGCCAACAAAGCTATTTGAGCCCACGGAATGTGGAAATGGATACGTGGAAGCTGGGG
AGGAGTGTGATTGTGGTTTTCATGTGGAATGCTATGGATTATGCTGTAAGAAATGTTCCCTCTCCAACGG
GGCTCACTGCAGCGACGGGCCCTGCTGTAACAATACCTCATGTCTTTTTCAGCCACGAGGGTATGAATGC
CGGGATGCTGTGAACGAGTGTGATATTACTGAATATTGTACTGGAGACTCTGGTCAGTGCCCACCAAATC
TTCATAAGCAAGACGGATATGCATGCAATCAAAATCAGGGCCGCTGCTACAATGGCGAGTGCAAGACCAG
AGACAACCAGTGTCAGTACATCTGGGGAACAAAGGCTGCAGGGTCTGACAAGTTCTGCTATGAAAAGCTG
AATACAGAAGGCACTGAGAAGGGAAACTGCGGGAAGGATGGAGACCGGTGGATTCAGTGCAGCAAACATG
ATGTGTTCTGTGGATTCTTACTCTGTACCAATCTTACTCGAGCTCCACGTATTGGTCAACTTCAGGGTGA
GATCATTCCAACTTCCTTCTACCATCAAGGCCGGGTGATTGACTGCAGTGGTGCCCATGTAGTTTTAGAT
GATGATACGGATGTGGGCTATGTAGAAGATGGAACGCCATGTGGCCCGTCTATGATGTGTTTAGATCGGA
AGTGCCTACAAATTCAAGCCCTAAATATGAGCAGCTGTCCACTCGATTCCAAGGGTAAAGTCTGTTCGGG
CCATGGGGTGTGTAGTAATGAAGCCACCTGCATTTGTGATTTCACCTGGGCAGGGACAGATTGCAGTATC
CGGGATCCAGTTAGGAACCTTCACCCCCCCAAGGATGAAGGACCCAAGGGTCCTAGTGCCACCAATCTCA
TAATAGGCTCCATCGCTGGTGCCATCCTGGTAGCAGCTATTGTCCTTGGGGGCACAGGCTGGGGATTTAA
AAATGTCAAGAAGAGAAGGTTCGATCCTACTCAGCAAGGCCCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

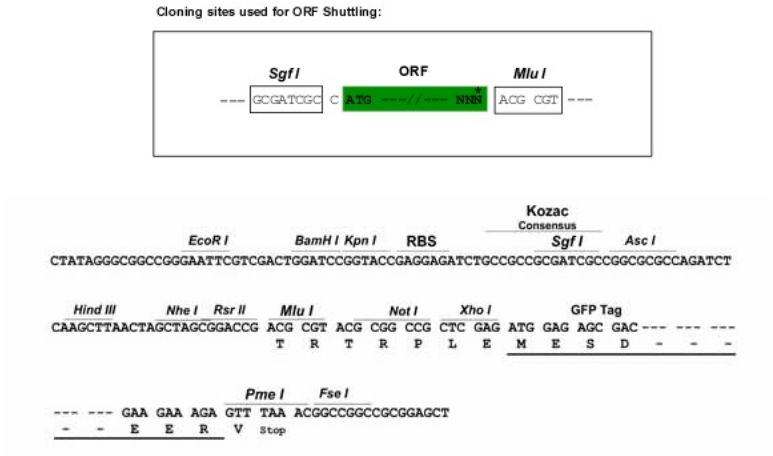
>RG222765 representing NM_003812
Red=Cloning site Green=Tags(s)

MKPPGSSSRQPPLAGCSLAGASCGPQRGPAGSVPASAPARTPPCRLLLVLLLLPPLAASSRPRAWGAAAP
SAPHWNETAEKNLGVLADEDNTLQQNSSSNISYSNAMQKEITLPSRLIYYINQDSESPYHVLDTKARHQQ
KHNKAVHLAQASFQIEAFGSKFILDLILNNGLLSSDYVEIHYENGKPQYSKGGEHCYYHGSIRGVKDSKV
ALSTCNGLHGMFEDDTFVYMIEPLELVHDEKSTGRPHIIQKTLAGQYSKQMKNLTMERGDQWPFLSELQW
LKRRKRAVNPSRGIFEEMKYLELMIVNDHKTYKKHRSSHAHTNNFAKSVVNLVDSIYKEQLNTRVVLVAV
ETWTEKDQIDITTNPVQMLHEFSKYRQRIKQHADAVHLISRVTFHYKRSSLSYFGGVCSRTRGVGVNEYG
LPMAVAQVLSQSLAQNLGIQWEPSSRKPKCDCTESWGGCIMEETGVSHSRKFSKCSILEYRDFLQRGGGA
CLFNRPTKLFEPTECGNGYVEAGEECDCGFHVECYGLCCKKCSLSNGAHCSDGPCCNNTSCLFQPRGYEC
RDAVNECDITEYCTGDSGQCPPNLHKQDGYACNQNQGRCYNGECKTRDNQCQYIWGTKAAGSDKFCYEKL
NTEGTEKGNCGKDGDRWIQCSKHDVFCGFLLCTNLTRAPRIGQLQGEIIPTSFYHQGRVIDCSGAHVVLD
DDTDVGYVEDGTPCGPSMMCLDRKCLQIQALNMSSCPLDSKGKVCSGHGVCSNEATCICDFTWAGTDCSI
RDPVRNLHPPKDEGPKGPSATNLIIGSIAGAILVAAIVLGGTGWGFKNVKKRRFDPTQQGPI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

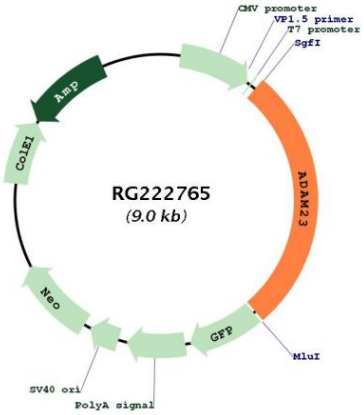
Cloning Scheme:



ACCN:	NM_003812
ORF Size:	2496 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_003812.4
RefSeq Size:	3059 bp
RefSeq ORF:	2499 bp
Locus ID:	8745
UniProt ID:	O75077
Cytogenetics:	2q33.3
Domains:	Reprolysin, DISIN, Pep_M12B_propep, ACR
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. It is reported that inactivation of this gene is associated with tumorigenesis in human cancers. [provided by RefSeq, May 2013]

Product images:



Circular map for RG222765