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Product datasheet for SC119437

ADAM10 (NM_001110) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM10 (NM_001110) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM10
Synonyms:	AD10; AD18; CD156c; CDw156; HsT18717; kuz; MADM; RAK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF sequence for NM_001110 edited
GCGAATTCGGCACGAGGCCGTTTCTCCTGCCAGGGGAGGTCCCGGCTTCCCGTGGAGGCT
CCGGACCAAGCCCCTTCAGCTTCTCCCTCCGGATCGATGTGCTGCTGTTAACCCGTGAGG
AGGCGGCGGCGGCGGCAGCGGCAGCGGAAGATGGTGTTGCTGAGAGTGTTAATTCTGCTC
CTCTCCTGGGCGGCGGGGATGGGAGGTCAGTATGGGAATCCTTTAAATAAATATATCAGA
CATTATGAAGGATTATCTTACAATGTGGATTCATTACACCAAAAACACCAGCGTGCCAAA
AGAGCAGTCTCACATGAAGACCAATTTTTACGTCTAGATTTCCATGCCCATGGAAGACAT
TTCAACCTACGAATGAAGAGGGACACTTCCCTTTTCAGTGATGAATTTAAAGTAGAAACA
TCAAATAAAGTACTTGATTATGATACCTCTCATATTTACACTGGACATATTTATGGTGAA
GAAGGAAGTTTTAGCCATGGGTCTGTTATTGATGGAAGATTTGAAGGATTCATCCAGACT
CGTGGTGGCACATTTTATGTTGAGCCAGCAGAGAGATATATTAAAGACCGAACTCTGCCA
TTTCACTCTGTCATTTATCATGAAGATGATATTAACTATCCCCATAAATACGGTCCTCAG
GGGGGCTGTGCAGATCATTCAGTATTTGAAAGAATGAGGAAATACCAGATGACTGGTGTA
GAGGAAGTAACACAGATACCTCAAGAAGAACATGCTGCTAATGGTCCAGAACTTCTGAGG
AAAAAACGTACAACTTCAGCTGAAAAAAATACTTGTCAGCTTTATATTCAGACTGATCAT
TTGTTCTTTAAATATTACGGAACACGAGAAGCTGTGATTGCCCAGATATCCAGTCATGTT
AAAGCGATTGATACAATTTACCAGACCACAGACTTCTCCGGAATCCGTAACATCAGTTTC
ATGGTGAAACGCATAAGAATCAATACAACTGCTGATGAGAAGGACCCTACAAATCCTTTC
CGTTTCCCAAATATTGGTGTGGAGAAGTTTCTGGAATTGAATTCTGAGCAGAATCATGAT
GACTACTGTTTGGCCTATGTCTTCACAGACCGAGATTTTGATGATGGCGTACTTGGTCTG
GCTTGGGTTGGAGCACCTTCAGGAAGCTCTGGAGGAATATGTGAAAAAAGTAAACTCTAT
TCAGATGGTAAGAAGAAGTCCTTAAACACTGGAATTATTACTGTTCAGAACTATGGGTCT
CATGTACCTCCCAAAGTCTCTCACATTACTTTTGCTCACGAAGTTGGACATAACTTTGGA
TCCCCACATGATTCTGGAACAGAGTGCACACCAGGAGAATCTAAGAATTTGGGTCAAAAA
GAAAATGGCAATTACATCATGTATGCAAGAGCAACATCTGGGGACAAACTTAACAACAAT
AAATTCTCACTCTGTAGTATTAGAAATATAAGCCAAGTTCTTGAGAAGAAGAGAAACAAC
TGTTTTGTTGAATCTGGCCAACCTATTTGTGGAAATGGAATGGTAGAACAAGGTGAAGAA
TGTGATTGTGGCTATAGTGACCAGTGTAAAGATGAATGCTGCTTCGATGCAAATCAACCA
GAGGGAAGAAAATGCAAACTGAAACCTGGGAAACAGTGCAGTCCAAGTCAAGGTCCTTGT
TGTACAGCACAGTGTGCATTCAAGTCAAAGTCTGAGAAGTGTCGGGATGATTCAGACTGT
GCAAGGGAAGGAATATGTAATGGCTTCACAGCTCTCTGCCCAGCATCTGACCCTAAACCA
AACTTCACAGACTGTAATAGGCATACACAAGTGTGCATTAATGGGCAATGTGCAGGTTCT
ATCTGTGAGAAATATGGCTTAGAGGAGTGTACGTGTGCCAGTTCTGATGGCAAAGATGAT
AAAGAATTATGCCATGTATGCTGTATGAAGAAAATGGACCCATCAACTTGTGCCAGTACA
GGGTCTGTGCAGTGGAGTAGGCACTTCAGTGGTCGAACCATCACCCTGCAACCTGGATCC
CCTTGCAACGATTTTAGAGGTTACTGTGATGTTTTCATGCGGTGCAGATTAGTAGATGCT
GATGGTCCTCTAGCTAGGCTTAAAAAAGCAATTTTTAGTCCAGAGCTCTATGAAAACATT
GCTGAATGGATTGTGGCTCATTGGTGGGCAGTATTACTTATGGGAATTGCTCTGATCATG
CTAATGGCTGGATTTATTAAGATATGCAGTGTTCATACTCCAAGTAGTAATCCAAAGTTG
CCTCCTCCTAAACCACTTCCAGGCACTTTAAAGAGGAGGAGACCTCCACAGCCCATTCAG
CAACCCCAGCGTCAGCGGCCCCGAGAGAGTTATCAAATGGGACACATGAGACGCTAACTG
CAGCTTTTGCCTTGGTTCTTCCTAGTGCCTACAATGGGAAAACTTCACTCCAAAGAGAAA
CCTATTAAGTCATCATCTCCAAACTAAACCCTCACAAGTAACAGTTGAAGAAAAAATGGC
AAGAGATCATATCCTCAGACCAGGTGGAATTACTTAAATTTTAAAGCCTGAAAATTCCAA
TTTGGGGGTGGGAGGTGGAAAAGGAACCCAATTTTCTTATGAACAGATATTTTTAACTTA
ATGGCACAAAGTCTTAGAATATTATTATGTGCCCCGTGTTCCCTGTTCTTCGTTGCTGCA
TTTTCTTCACTTGCAGGCAAACTTGGCTCTCAATAAACTTTTACCACAAATTGAAATAAA
TATATTTTTTTCAACTGCC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001110 unedited
NGGTTCAAATTTCGGATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCCGTTTC
TCCTGCCAGGGAGGTCCCGGCTTCCCGTGGAGGCTCCGGACCAAGCCCCTTCAGCTTCTC
CCTCCGGATCGATGTGCTGCTGTTAACCCGTGAGGAGGCGGCGGCGGCGGCAGCGGCAGC
GGAAGATGGTGTTGCTGAGAGTGTTAATTCTGCTCCTCTCCTGGGCGGCGGGGATGGGAG
GTCAGTATGGGAATCCTTTAAATAAATATATCAGACATTATGAAGGATTATCTTACAATG
TGGATTCATTACACCAAAAACACCAGCGTGCCAAAAGAGCAGTCTCACATGAAGACCAAT
TTTTACGTCTAGATTTCCATGCCCATGGAAGACATTTCAACCTACGAATGAAGAGGGACA
CTTCCCTTTTCAGTGATGAATTTAAAGTAGAAACATCAAATAAAGTACTTGATTATGATA
CCTCTCATATTTACACTGGACATATTTATGGTGAAGAAGGAAGTTTTAGCCATGGGTCTG
TTATTGATGGAAGATTTGAAGGATTCATCCAGACTCGTGGTGGCACATTTTATGTTGAGC
CAGCAGAGAGATATATTAAAGACCGAACTCTGCCATTTCACTCTGTCATTTATCATGAAG
ATGATATTAACTATCCCCATAAATACGGTCCTCANGGGGGCTGTGCAGATCATTCAGTAT
TTGAAAGAATGAGGAAATACCAGATGACTGGTGTAGAGGAAAGTACACAGATACCTCAAG
AAGACATGCTGCNTATGGTCCAGAACTTNCTGAGAAAAACGTACACTTCAGCTGAAAAAA
TACTTGTCAGCTNTATATTCAGACTGATCATTTGTTCCTTTAATATTACGGGACACCGAA
A

Restriction Sites: NotI-NotI

ACCN: NM_001110

Insert Size: 4760 bp

OTI Disclaimer: 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.

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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_001110.2, NP_001101.1
RefSeq Size:	3927 bp
RefSeq ORF:	2247 bp
Locus ID:	102
UniProt ID:	O14672
Cytogenetics:	15q21.3
Domains:	Reprolysin, DISIN
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Alzheimer's disease, Epithelial cell signaling in Helicobacter pylori infection
Gene Summary:	Members of the ADAM family are cell surface proteins with a unique structure possessing both potential adhesion and protease domains. This gene encodes and ADAM family member that cleaves many proteins including TNF-alpha and E-cadherin. Alternate splicing results in multiple transcript variants encoding different proteins that may undergo similar processing. [provided by RefSeq, Feb 2016] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).