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 SC338030

ATP7A (NM_001282224) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP7A (NM_001282224) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP7A
Synonyms:	DSMAX; MK; MNK; SMAX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282224, the custom clone sequence may differ by one or more nucleotides

ATGGATCCAAGTATGGGTGTGAATTCTGTTACCATTTCTGTTGAGGGTATGACTTGCAATTCCTGTGTTT
GGACCATTGAGCAGCAGATTGGAAAAGTGAATGGTGTGCATCACATTAAGGTATCACTGGAAGAAAAAAA
TGCAACTATTATTTATGACCCTAAACTACAGACTCCAAAGACCCTACAGGAAGCTATTGATGACATGGGC
TTTGATGCTGTTATCCATAATCCTGACCCTCTCCCTGTTTTAACTGACACCTTGTTTCTGACTGTTACGG
CGTCACTGACTTTGCCATGGGACCATATCCAAAGCACATTGCTGAAGACCAAGGGTGTGACAGACATTAA
AATTTACCCTCAGAAAAGAACTGTAGCAGTGACAATAATCCCTTCTATAGTGAATGCCAATCAGATAAAA
GAGCTGGTTCCAGAACTCAGTTTAGATACTGGGACACTGGAGAAAAAGTCAGGAGCTTGTGAAGATCATA
GTATGGCTCAAGCTGGTGAAGTCGTGCTGAAGATGAAAGTGGAAGGGATGACCTGCCATTCATGTACTAG
CACTATTGAAGGAAAAATTGGGAAACTGCAAGGTGTTCAGCGAATTAAAGTCTCCCTGGACAATCAAGAA
GCTACTATTGTTTATCAACCTCATCTTATCTCAGTAGAGGAAATGAAAAAGCAGATTGAAGCTATGGGCT
TTCCAGCATTTGTCAAAAAGCAGCCCAAGTACCTCAAATTGGGAGCTATTGATGTAGAACGTCTAAAGAA
CACACCAGTTAAATCCTCAGAAGGGTCACAGCAAAGGAGTCCATCATATACCAATGATTCAACAGCCACT
TTCATCATTGATGGCATGCATTGTAAATCATGTGTGTCAAATATTGAAAGTACTTTATCTGCACTCCAAT
ATGTAAGCAGCATAGTAGTTTCTTTAGAGAATAGGTCTGCCATTGTGAAGTATAATGCAAGCTCAGTCAC
TCCAGAATCCCTGAGAAAAGCAATAGAGGCTGTATCACCGGGGCTATATAGAGTTAGTATCACAAGTGAA
GTTGAGAGTACCTCAAACTCTCCCTCCAGCTCATCTCTTCAGAAGATTCCTTTGAATGTAGTTAGCCAGC
CTCTGACACAAGAAACTGTGATAAACATTGATGGCATGACTTGTAATTCCTGTGTGCAGTCTATTGAGGG
TGTCATATCAAAAAAGCCAGGTGTAAAATCCATACGAGTCTCCCTTGCAAATAGCAATGGGACTGTTGAG
TATGATCCTCTACTAACCTCTCCAGAAACGTTGAGAGGAGCAATAGAAGACATGGGATTTGATGCTACCT
TGTCAGACACGAATGAGCCGTTGGTAGTAATAGCTCAGCCTTCATCGGAAATGCCGCTTTTGACTTCAAC
TAATGAATTTTATACTAAAGGGATGACACCAGTTCAAGACAAGGAGGAAGGAAAGAATTCATCTAAGTGT
TACATACAGGTCACTGGCATGACTTGCGCTTCCTGTGTAGCAAACATTGAACGGAATTTAAGGCGGGAAG
AAGGAATATATTCTATACTTGTGGCCCTGATGGCTGGCAAGGCAGAAGTAAGGTATAATCCTGCTGTTAT

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ACAACCCCCAATGATAGCAGAGTTCATCCGAGAACTTGGATTTGGAGCCACTGTGATAGAAAATGCTGAT
GAAGGAGATGGTGTTTTGGAACTTGTTGTGAGGGGAATGACGTGTGCCTCCTGCGTACATAAAATAGAGT
CTAGTCTCACAAAACACAGAGGGATCCTATACTGCTCCGTGGCCCTGGCAACCAACAAAGCACATATTAA
ATATGACCCAGAAATTATTGGTCCTAGAGATATTATCCATACAATTGAAAGCTTAGGTTTTGAAGCTTCT
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TTCTTGTGAGTCTGTTTTTCTGTATTCCTGTAATGGGGCTGATGATATATATGATGGTTATGGACCACCA
CTTTGCAACTCTTCACCATAATCAAAACATGAGTAAAGAAGAAATGATCAACCTTCATTCTTCTATGTTC
CTGGAGCGCCAGATTCTTCCAGGATTGTCTGTTATGAATTTGCTGTCCTTTTTATTGTGTGTACCTGTAC
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AAAGTAGTTCCAGGAGGCAAATTTCCAGTGGATGGTCGTGTTATTGAAGGACATTCTATGGTAGATGAGT
CCCTCATCACAGGGGAGGCAATGCCTGTGGCTAAGAAACCTGGCAGCACAGTGATTGCTGGTTCCATTAA
CCAGAACGGGTCACTGCTTATCTGCGCAACACATGTTGGAGCAGACACAACCCTTTCTCAAATTGTCAAA
CTTGTGGAAGAGGCACAAACATCAAAGGCTCCTATCCAGCAGTTTGCAGACAAACTCAGTGGCTATTTTG
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AATTGTGGAAACCTACTTTCCTGGCTACAATAGAAGTATCTCCCGAACAGAAACGATAATACGATTTGCT
TTCCAAGCCTCTATCACAGTTCTGTGTATTGCATGTCCCTGTTCACTGGGACTGGCCACTCCAACTGCTG
TGATGGTGGGTACAGGAGTAGGTGCTCAAAATGGCATACTAATAAAAGGTGGAGAGCCATTGGAGATGGC
TCATAAGGTAAAGGTAGTGGTATTTGATAAGACTGGAACCATTACTCACGGAACCCCAGTGGTGAATCAA
GTAAAGGTTCTAACTGAAAGTAACAGAATATCACACCATAAAATCTTGGCCATTGTGGGAACTGCTGAAA
GTAACAGTGAACACCCTCTAGGAACAGCCATAACCAAATATTGCAAACAGGAGCTGGACACTGAAACCTT
GGGTACCTGCATAGATTTCCAGGTTGTGCCAGGCTGTGGTATTAGCTGTAAAGTCACCAATATTGAAGGC
TTGCTACATAAGAATAACTGGAATATAGAGGACAATAATATTAAAAATGCATCCCTGGTTCAAATTGATG
CCAGTAATGAACAGTCATCAACTTCGTCTTCCATGATTATTGATGCCCAGATCTCAAATGCTCTTAATGC
TCAGCAGTATAAAGTCCTCATTGGTAACCGGGAGTGGATGATTAGAAATGGTCTTGTCATTAATAACGAT
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TATGGGCTTAGAAGTAGTTCTGATGACTGGAGACAACAGTAAAACAGCTAGATCTATTGCTTCTCAGGTT
GGCATTACTAAGGTGTTTGCTGAAGTTCTACCTTCTCACAAGGTTGCTAAAGTGAAGCAACTTCAAGAGG
AGGGGAAACGGGTAGCAATGGTGGGAGATGGAATCAATGACTCCCCAGCTCTGGCAATGGCTAATGTGGG
AATTGCTATTGGCACAGGCACAGATGTAGCCATTGAAGCAGCTGATGTGGTTTTGATAAGGAATGATCTT
CTGGATGTAGTGGCAAGTATTGACTTATCAAGAAAGACAGTCAAGAGGATTCGGATAAATTTTGTCTTTG
CTCTAATTTATAATCTGGTTGGAATTCCCATAGCTGCTGGAGTTTTTATGCCCATTGGTTTGGTTTTGCA
GCCCTGGATGGGATCTGCAGCAATGGCTGCTTCATCTGTTTCTGTAGTACTTTCTTCTCTCTTCCTTAAA
CTTTACAGGAAACCAACTTACGAGAGTTATGAACTGCCTGCCCGGAGCCAGATAGGACAGAAGAGTCCTT
CAGAAATCAGCGTTCATGTTGGAATAGATGATACCTCAAGGAATTCTCCTAAACTGGGTTTGCTGGACCG
GATTGTTAATTATAGCAGAGCCTCTATAAACTCACTACTGTCTGATAAACGCTCCCTAAACAGTGTTGTT
ACCAGTGAACCTGACAAGCACTCACTCCTGGTGGGAGACTTCAGGGAAGATGATGACACTGCATTATAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001282224
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001282224.1, NP_001269153.1
RefSeq Size:	8306 bp
RefSeq ORF:	4269 bp
Locus ID:	538
UniProt ID:	Q04656
Cytogenetics:	Xq21.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a transmembrane protein that functions in copper transport across membranes. This protein is localized to the trans Golgi network, where it is predicted to supply copper to copper-dependent enzymes in the secretory pathway. It relocalizes to the plasma membrane under conditions of elevated extracellular copper, and functions in the efflux of copper from cells. Mutations in this gene are associated with Menkes disease, X-linked distal spinal muscular atrophy, and occipital horn syndrome. Alternatively-spliced transcript variants have been observed. [provided by RefSeq, Aug 2013] Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. This variant is supported by data in PMIDs 7490081 and 10970802. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.