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Product datasheet for SC325397

ATP13A2 (NM_001141974) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: ATP13A2 (NM_001141974) Human Untagged Clone

Tag: Tag Free

Symbol: ATP13A2

Synonyms: CLN12; HSA9947; KRPPD; PARK9; SPG78

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001141974, the custom clone sequence may differ by one or more nucleotides

ATGAGCGCAGACAGCAGCCCTCTCGTGGGCAGCACGCCCACCGGTTATGGGACCCTGACG
ATAGGGACATCAATAGATCCCCTCAGCTCCTCAGTTTCATCCGTGAGGCTCAGCGGCTAC
TGTGGCAGTCCATGGAGGGTCATCGGCTATCACGTCGTGGTCTGGATGATGGCTGGGATC
CCTTTGCTGCTCTTCCGTTGGAAGCCCCTGTGGGGGGTGCGGCTGCGGCTCCGGCCCTGC
AACCTGGCCCACGCCGAAACACTCGTTATCGAAATAAGAGACAAAGAGGATAGTTCCTGG
CAGCTCTTCACTGTCCAGGTGCAGACTGAGGCCATCGGCGAGGGCAGCCTGGAGCCGTCC
CCACAGTCCCAGGCAGAGGATGGCCGGAGCCAGGCGGCAGTTGGGGCGGTACCAGAGGGT
GCCTGGAAGGATACGGCCCAGCTCCACAAGAGCGAGGAGGCGAAGCGGGTGCTGCGGTAT
TACCTCTTCCAGGGCCAGCGCTATATCTGGATCGAGACCCAGCAAGCCTTCTACCAGGTC
AGCCTCCTGGACCATGGCCGCTCTTGTGACGACGTCCACCGCTCCCGCCATGGCCTCAGC
CTCCAGGACCAAATGGTGAGGAAGGCCATTTACGGCCCCAACGTGATCAGCATACCGGTC
AAGTCCTACCCCCAGCTGCTGGTGGACGAGGCACTGAACCCCTACTATGGGTTCCAGGCC
TTCAGCATCGCGCTGTGGCTGGCTGACCACTACTACTGGTACGCCCTGTGCATCTTCCTC
ATTTCCTCCATCTCCATCTGCCTGTCGCTGTACAAGACCAGAAAGCAAAGCCAGACTCTA
AGGGACATGGTCAAGTTGTCCATGCGGGTGTGCGTGTGCCGGCCAGGGGGAGAGGAAGAG
TGGGTGGACTCCAGTGAGCTAGTGCCCGGAGACTGCCTGGTGCTGCCCCAGGAGGGTGGG
CTGATGCCCTGTGATGCCGCCCTGGTGGCCGGCGAGTGCATGGTGAATGAGAGCTCTCTG
ACAGGAGAGAGCATTCCAGTGCTGAAGACGGCACTGCCGGAGGGGCTGGGGCCCTACTGT
GCAGAGACACACCGGCGGCACACACTCTTCTGCGGGACCCTCATCTTGCAGGCCCGGGCC
TATGTGGGACCGCACGTCCTGGCAGTGGTGACCCGCACAGGGTTCTGCACGGCAAAAGGG
GGCCTGGTGAGCTCCATCTTGCACCCCCGGCCCATCAACTTCAAGTTCTATAAACACAGC
ATGAAGTTTGTGGCTGCCCTCTCTGTCCTGGCTCTCCTCGGCACCATCTACAGCATCTTC
ATCCTCTACCGAAACCGGGTGCCTCTGAATGAGATTGTAATCCGGGCTCTCGACCTGGTG
ACCGTGGTGGTGCCACCTGCCCTGCCTGCTGCCATGACTGTGTGCACGCTCTACGCCCAG
AGCCGACTGCGGAGACAGGGCATTTTCTGCATCCACCCACTGCGCATCAACCTGGGGGGC
AAGCTGCAGCTGGTGTGTTTCGACAAGACGGGCACCCTCACTGAGGACGGCTTAGACGTG
ATGGGGGTGGTGCCCCTGAAGGGGCAGGCATTCCTGCCCCTGGTCCCAGAGCCTCGCCGC
CTGCCTGTGGGGCCCCTGCTCCGAGCACTGGCCACCTGCCATGCCCTCAGCCGGCTCCAG
GACACCCCCGTGGGCGACCCCATGGACTTGAAGATGGTGGAGTCTACTGGCTGGGTCCTG

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GAGGAAGAGCCGGCTGCAGACTCAGCATTTGGGACCCAGGTCTTGGCAGTGATGAGACCC
CCACTTTGGGAGCCCCAGCTGCAGGCAATGGAGGAGCCCCCGGTGCCAGTCAGCGTCCTC
CACCGCTTCCCCTTCTCTTCGGCTCTGCAGCGCATGAGTGTGGTGGTGGCGTGGCCAGGG
GCCACTCAGCCCGAGGCCTACGTCAAAGGCTCCCCGGAGCTGGTGGCAGGGCTCTGCAAC
CCCGAGACAGTGCCCACCGACTTCGCCCAGATGCTGCAGAGCTATACAGCTGCTGGCTAC
CGTGTCGTGGCCCTGGCCAGCAAGCCACTGCCCACTGTGCCCAGCCTGGAGGCAGCCCAG
CAACTGACGAGGGACACTGTGGAAGGAGACCTGAGCCTCCTGGGGCTGCTGGTCATGAGG
AACCTACTGAAGCCGCAGACAACGCCAGTTATCCAGGCTCTGCGAAGGACCCGCATCCGC
GCCGTCATGGTGACAGGGGACAACCTGCAGACAGCGGTGACTGTGGCCCGGGGCTGTGGC
ATGGTGGCCCCCCAGGAGCATCTGATCATCGTCCACGCCACCCACCCTGAGCGGGGTCAG
CCTGCCTCTCTCGAGTTCCTGCCGATGGAGTCCCCCACAGCCGTGAATGGCGTTAAGGTC
CTGGTCCAGGGCACTGTCTTTGCCCGCATGGCCCCTGAGCAGAAGACAGAGCTGGTGTGC
GAGCTACAGAAGCTTCAGTACTGCGTGGGCATGTGCGGAGACGGCGCCAATGACTGTGGG
GCCCTGAAGGCGGCTGATGTCGGCATCTCGCTGTCCCAGGCAGAAGCCTCAGTGGTCTCA
CCCTTCACCTCGAGCATGGCCAGTATTGAGTGCGTGCCCATGGTCATCAGGGAGGGGCGC
TGTTCCCTTGACACTTCGTTCAGCGTCTTCAAGTACATGGCTCTGTACAGCCTGACCCAG
TTCATCTCCGTCCTGATCCTCTACACGATCAACACCAACCTGGGTGACCTGCAGTTCCTG
GCCATCGACCTGGTCATCACCACCACAGTGGCAGTGCTCATGAGCCGCACGGGGCCAGCG
CTGGTCCTGGGACGGGTGCGGCCACCGGGGGCGCTGCTCAGCGTGCCCGTGCTCAGCAGC
CTGCTGCTGCAGATGGTCCTGGTGACCGGCGTGCAGCTAGGGGGCTACTTCCTGACCCTG
GCCCAGCCATGGTTCGTGCCTCTGAACAGGACAGTGGCCGCACCAGACAACCTGCCCAAC
TACGAGAACACCGTGGTCTTCTCTCTGTCCAGCTTCCAGTACCTCATCCTGGCTGCAGCC
GTGTCCAAGGGGGCGCCCTTCCGCCGGCCGCTCTACACCAATGAGCGTGCTAGACCAGTG
CCTCCCCGCCTGCCTGCGCCGCCTCCGGCCCAAGCGGGCCTCCAAGAAGCGCTTCAAGCA
GCTGGAACGAGAGCTGGCCGAGCAGCCCTGGCCGCCGCTGCCCGCCGGCCCCCTGAGGTA
GTGCAGGCCCACGGGCACCCCAGACACTGGAACTCCCTGCCTCTGAGCCACCAACTGGAC
CCCTCTCCAGCAACACCACCGCCACCACCTCCCACATCCCTGAGGTTGGCGACTGTCTAC
ACTCCTCCCCCGAGACCACCCCCACCCTGGGGAAGCGTTGACTACTGTCCCCTACCTTGG
ACCATCCCGCGTAGGGGTGGCAGCCCCCAGCTCCCCTCAGTGCTGCTGTCAGTG

Restriction Sites: Please inquire

ACCN: NM_001141974

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001141974.1, NP_001135446.1
RefSeq Size:	3694 bp
RefSeq ORF:	3477 bp
Locus ID:	23400
UniProt ID:	Q9NQ11
Cytogenetics:	1p36.13
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the P5 subfamily of ATPases which transports inorganic cations as well as other substrates. Mutations in this gene are associated with Kufor-Rakeb syndrome (KRS), also referred to as Parkinson disease 9. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2008] Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 5' coding region, and lacks two alternate exons in the 3' coding region which results in a frameshift, compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct C-terminus, compared to isoform 1. The transcript contains an upstream ORF that could encode a 103aa protein and may modulate translation from the downstream ORF encoding isoform 3.