

Product datasheet for **SC309959**

ATP13A2 (NM_022089) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP13A2 (NM_022089) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP13A2
Synonyms:	CLN12; HSA9947; KRPPD; PARK9; SPG78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309959 representing NM_022089. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
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TCAATAGATCCCCTCAGCTCCTCAGTTTCATCCGTGAGGCTCAGCGGCTACTGTGGCAGTCCATGGAGG
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CTGCAGCTGGTGTGTTTCGACAAGACGGGCACCCTCACTGAGGACGGCTTAGACGTGATGGGGGTGGTG
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_022089
- Insert Size:** 3543 bp
- 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_022089.3](#)

RefSeq Size: 4061 bp

RefSeq ORF: 3543 bp

Locus ID: 23400

UniProt ID: [Q9NQ11](#)

Cytogenetics: 1p36.13

Domains: E1-E2_ATPase, Hydrolase

Protein Families: Transmembrane

MW: 128.8 kDa

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 (1) represents the longest transcript and encodes the longest isoform (1). The transcript contains an upstream ORF that could encode a 103aa protein and may modulate translation from the downstream ORF encoding isoform 1.