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Product datasheet for RC225360

AUTS2 (NM_001127232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AUTS2 (NM_001127232) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AUTS2
Synonyms:	FBRSL2; MRD26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC225360 representing NM_001127232
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGGCCCGACGCGGGGCCATGGACTCCGCAAAAAGCGGCGGTCGCGGTCGCAGCGAGACCGGGAGA
GGCGCTCCCGGGGCGGGCTGGGGGCCGGCGCGGCCGGCGGCGGCGGGGCTGGCCGGACCCGGGCGCTCTC
ACTCGCCTCGTCGTCGGGCTCCGACAAGGAAGACAATGGGAAGCCCCCGTCCTCCGCCCCGTCCCGGCCC
AGACCCCCGCGGAGGAAGCGGAGAGAGTCCACCTCGGCAGAAGAGGACATCATTGATGGATTTGCCATGA
CCAGCTTTGTCACTTTTGAAGCGCTGGAGAAAGATGTAGCACTTAAGCCTCAGGAACGTGTGGAGAAACG
CCAGACGCCCCTGACCAAGAAGAAACGAGAAGCACTTACCAATGGCTTGTCCTTTCATTCAAAGAAGAGC
AGACTCAGCCACCCACACCACTACAGCTCAGATCGAGAAAATGACCGCAATCTCTGCCAGCACCTTGGGA
AGAGAAAGAAAATGCCGAAGGCACTCAGACAGCTCAAGCCAGGACAGAACAGCTGCAGGGACAGTGACAG
TGAAAGTGCCAGTGGAGAATCCAAGGGCTTCCACCGGAGCAGCTCTCGGGAAAGGCTCAGTGATAGTTCA
GCTCCTTCCAGCTTGGGAACAGGCTACTTCAGATCAGGGAAGATGTGCCTTGGAGAGGAAGCATGTCTTA
AATCTGGAAATGATATGAAGAGGGATGTCAGCAACACTTCATCCTGGGCCAGTAATAGGGAGAGTTTCTT
TTCTCTCGTCAAATTGCTTAAAGGATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC225360 representing NM_001127232
Red=Cloning site Green=Tags(s)

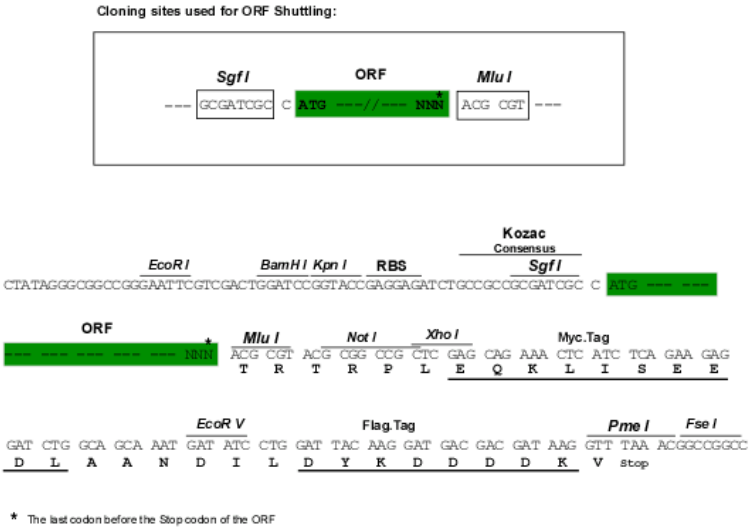
MDGPTRGHGLRKKRRSRSQRDRERRSRGGLGAGAAGGGGAGRTRALSLASSSGSDKEDNGKPPSSAPSRP
RPPRRKRRESTSAEEDIIDGFAMTSFVTFEALEKDVALKPQERVEKRQTPLTKKKREALTNGLSFHSKKS
RLSHPHHYSSDRENDRNLCQHLGKRKKMPKALRQLKPGQNSCRDSDSESASGESKGFHRSSSRERLSDSS
APSSLGTGYFRSGKMCLGEEACLKSGNDMKRDVSNTSSWASNRESFFSLVKLLKGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001127232

ORF Size: 798 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_001127232.3

RefSeq ORF: 801 bp

Locus ID: 26053

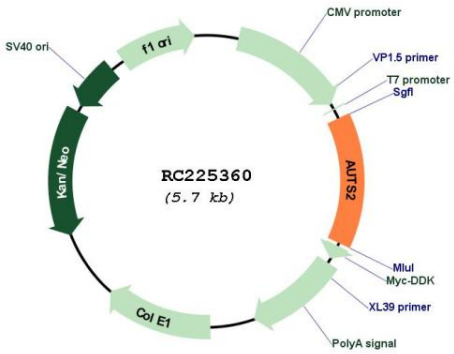
UniProt ID: Q8WXX7

Cytogenetics: 7q11.22

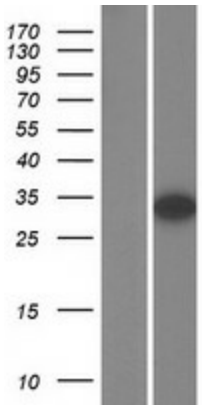
MW: 29.1 kDa

Gene Summary: This gene has been implicated in neurodevelopment and as a candidate gene for numerous neurological disorders, including autism spectrum disorders, intellectual disability, and developmental delay. Mutations in this gene have also been associated with non-neurological disorders, such as acute lymphoblastic leukemia, aging of the skin, early-onset androgenetic alopecia, and certain cancers. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2014]

Product images:



Circular map for RC225360



Western blot validation of overexpression lysate (Cat# [LY426731]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225360 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).