

Product datasheet for RC211240

ASC2 (PYDC1) (NM_152901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASC2 (PYDC1) (NM_152901) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASC2
Synonyms:	ASC2; cPOP1; POP1; PYC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211240 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAACGAAGCGGAGGCCATCCTGAAGGTGCTGGAGAACCTGACACCGGAGGAGCTCAAGAAGTTCA
AGATGAAGCTGGGGACGGTGCCGCTGCGCGAGGGCTTTGAGCGCATCCCGCGGGGCGCGCTCGGGCAGCT
AGATATCGTGGACCTACCGACAAGCTGGTCGCCTCCTACTACGAGGACTACGCAGCCGAGCTCGTCGTG
GCCGTGCTGCGGACATGCGCATGTTGGAGGAGGCCGACGGCTGCAGCGGGCTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC211240 protein sequence Red=Cloning site Green=Tags(s)
	MGTKREAILKVLLENLTPEELKKFKMKLGTVPLREGFERIPRGALGQLDIVDLTDKLVASYIEDYAAELVV AVLRDMRMLEEAARLQRAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6373_h09.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_152901

ORF Size: 267 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.

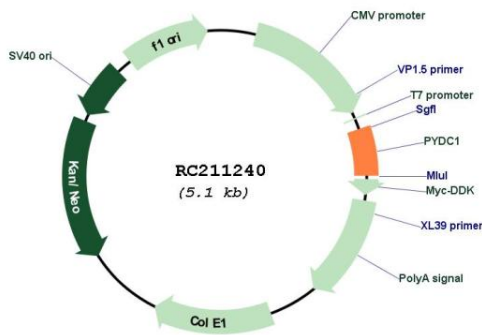
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152901.4](#)

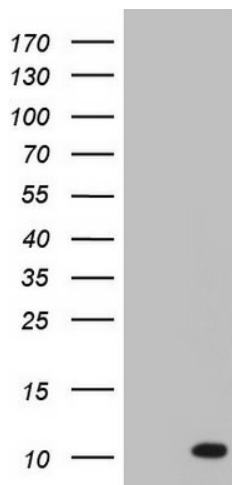
RefSeq Size: 582 bp

RefSeq ORF:	270 bp
Locus ID:	260434
UniProt ID:	Q8WXC3
Cytogenetics:	16p11.2
Protein Pathways:	NOD-like receptor signaling pathway
MW:	10.1 kDa
Gene Summary:	Associates with PYCARD/ASC and modulates its ability to collaborate with MEFV/pyrin and NLRP3/cryopyrin in NF-kappa-B and pro-caspase-1 activation. Suppresses kinase activity of NF-kappa-B inhibitor kinase (IKK) complex, expression of NF-kappa-B inducible genes and inhibits NF-kappa-B activation by cytokines and LPS.[UniProtKB/Swiss-Prot Function]

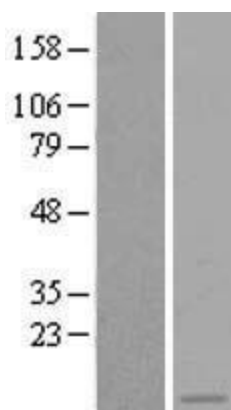
Product images:



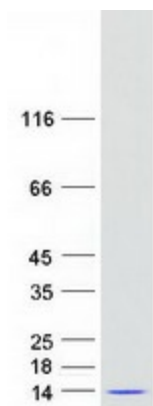
Circular map for RC211240



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PYDC1 (Cat# RC211240, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PYDC1 (Cat# [TA803466]). Positive lysates [LY407263] (100ug) and [LC407263] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407263]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211240 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PYDC1 protein (Cat# [TP311240]). The protein was produced from HEK293T cells transfected with PYDC1 cDNA clone (Cat# RC211240) using MegaTran 2.0 (Cat# [TT210002]).