

## Product datasheet for **RG211240**

### 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:** TurboGFP  
**Symbol:** ASC2  
**Synonyms:** ASC2; cPOP1; POP1; PYC1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG211240 representing NM\_152901  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAACGAAGCGCGAGGCCATCCTGAAGGTGCTGGAGAACCTGACACCGGAGGAGCTCAAGAAGTTCA  
 AGATGAAGCTGGGGACGGTGCCGCTGCGCGAGGGCTTTGAGCGCATCCCGCGGGGCGCGCTCGGGCAGCT  
 AGATATCGTGGACCTACCGACAAGCTGGTCGCCTCCTACTACGAGGACTACGCAGCCGAGCTCGTCGTG  
 GCCGTGCTGCGCGACATGCGCATGTTGGAGGAGCCGCACGGCTGCAGCGGGCTGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG211240 representing NM\_152901  
 Red=Cloning site Green=Tags(s)  
 MGTKREAILKVLLENLTPEELKKFKMKLGTVPLREGFERIPRGALGQLDIVLTDKLVASYIEDYAAELVV  
 AVLDRMRMLEEAARLQRAA

**TRTRPLE** - GFP Tag - V

**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:**

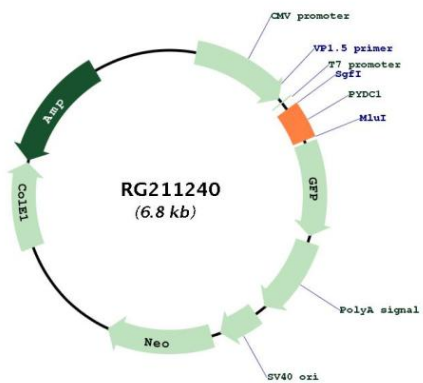
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_152901.4](#)

**RefSeq Size:** 587 bp

RefSeq ORF:	270 bp
Locus ID:	260434
UniProt ID:	<a href="#">Q8WXC3</a>
Cytogenetics:	16p11.2
Protein Pathways:	NOD-like receptor signaling pathway
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 RG211240