

Product datasheet for SC334175

RPA34 (RPA2) (NM_001286076) Human Untagged Clone

Product data:

Product Type: Expression Plasmids Product Name: RPA34 (RPA2) (NM_001286076) Human Untagged Clone Tag: Tag Free RPA2 Symbol: Synonyms: REPA2; RP-A p32; RP-A p34; RPA32 **Mammalian Cell** Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) **Fully Sequenced ORF:** >NCBI ORF sequence for NM_001286076, the custom clone sequence may differ by one or more nucleotides ATGACAGCTGCACCCATGGACGTTCGCCAGTGGGTTGACACAGATGACACCAGCAGTGAAAACACTGTGG TTCCTCCAGAAACATATGTGAAAGTGGCAGGCCACCTGAGATCTTTTCAGAACAAAAAGAGCCTGGTAGC CTTTAAGATCATGCCCCTGGAGGATATGAATGAGTTCACCACACATATTCTGGAAGTGATCAATGCACAC ATGGTACTAAGCAAAGCCAACAGCCAGCCCTCAGCAGGGAGAGCACCTATCAGCAATCCAGGAATGAGTG AAGCAGGGAACTTTGGTGGGAATAGCTTCATGCCAGCAAATGGCCTCACTGTGGCCCAAAACCAGGTGTT GAATTTGATTAAGGCTTGTCCAAGACCTGAAGGGTTGAACTTTCAGGATCTCAAGAACCAGCTGAAACAC ATGTCTGTATCCTCAATCAAGCAAGCTGTGGATTTTCTGAGCAATGAGGGGCACATCTATTCTACTGTGG ATGATGACCATTTTAAATCCACAGATGCAGAATAA **Restriction Sites:** Sgfl-Mlul ACCN: NM 001286076 **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). **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).



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ORIGENE RPA34 (RPA2) (NM_001286076) Human Untagged Clone – SC334175

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001286076.1, NP 001273005.1</u>
RefSeq Size:	1970 bp
RefSeq ORF:	525 bp
Locus ID:	6118
UniProt ID:	<u>P15927</u>
Cytogenetics:	1p35.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	DNA replication, Homologous recombination, Mismatch repair, Nucleotide excision repair
Gene Summary:	This gene encodes a subunit of the heterotrimeric Replication Protein A (RPA) complex, which binds to single-stranded DNA (ssDNA), forming a nucleoprotein complex that plays an important role in DNA metabolism, being involved in DNA replication, repair, recombination, telomere maintenance, and co-ordinating the cellular response to DNA damage through activation of the ataxia telangiectasia and Rad3-related protein (ATR) kinase. The RPA complex protects single-stranded DNA from nucleases, prevents formation of secondary structures that would interfere with repair, and co-ordinates the recruitment and departure of different genome maintenance factors. The heterotrimeric complex has two different modes of ssDNA binding, a low-affinity and high-affinity mode, determined by which

oligonucleotide/oligosaccharide-binding (OB) domains of the complex are utilized, and differing in the length of DNA bound. This subunit contains a single OB domain that participates in high-affinity DNA binding and also contains a winged helix domain at its

modifications of the RPA complex also plays a role in co-ordinating different damage

carboxy terminus, which interacts with many genome maintenance protein. Post-translational

Transcript Variant: This variant (2) uses an alternate splice site in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded

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response pathways. [provided by RefSeq, Sep 2017]

isoform (2) has a shorter N-terminus than isoform 1.