Datasheet for ABIN7555219

# RFC1 Protein (AA 1-1148) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | RFC1 |
| Protein Characteristics: | AA 1-1148 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This RFC1 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Purpose: | Custom-made recombinat RFC1 Protein expressed in mammalien cells. |
| Sequence: | MDIRKFFGVI PSGKKLVSET VKKNEKTKSD EETLKAKKGI KEIKVNSSRK EDDFKQKQPS KKKRIIYDSD SESEETLQVK NAKKPPEKLP VSSKPGKISR QDPVTYISET DEEDDFMCKK AASKSKENGR STNSHLGTSN MKKNEENTKT KNKPLSPIKL TPTSVLDYFG TGSVQRSNKK MVASKRKELS QNTDESGLND EAIAKQLQLD EDAELERQLH EDEEFARTLA MLDEEPKTKK ARKDTEAGET FSSVQANLSK AEKHKYPHKV KTAQVSDERK SYSPRKQSKY ESSKESQQHS KSSADKIGEV SSPKASSKLA IMKRKEESSY KEIEPVASKR KENAIKLKGE TKTPKKTKSS PAKKESVSPE DSEKKRTNYQ AYRSYLNREG PKALGSKEIP KGAENCLEGL IFVITGVLES IERDEAKSLI ERYGGKVTGN VSKKTNYLVM GRDSGQSKSD KAAALGTKII DEDGLLNLIR TMPGKKSKYE IAVETEMKKE SKLERTPQKN VQGKRKISPS KKESESKKSR PTSKRDSLAK TIKKETDVFW KSLDFKEQVA EETSGDSKAR NLADDSSENK VENLLWVDKY KPTSLKTIIG QQGDQSCANK LLRWLRNWQK SSSEDKKHAA KFGKFSGKDD GSSFKAALLS GPPGVGKTTT |

## Product Details

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| | ASLVCQELGY SYVELNASDT RSKSSLKAIV AESLNNTSIK GFYSNGAASS VSTKHALIMD EVDGMAGNED RGGIQELIGL IKHTKIPIIC MCNDRNHPKI RSLVHYCFDL RFQRPRVEQI KGAMMSIAFK EGLKIPPPAM NEIILGANQD IRQVLHNLSM WCARSKALTY DQAKADSHRA KKDIKMGPFD VARKVFAAGE ETAHMSLVDK SDLFFHDYSI APLFVQENYI HVKPVAAGGD MKKHLMLLSR AADSICDGDL VDSQIRSKQN WSLLPAQAIY ASVLPGELMR GYMTQFPTFP SWLGKHSSTG KHDRIVQDLA LHMSLRTYSS KRTVNMDYLS LLRDALVQPL TSQGVDGVQD VVALMDTYYL MKEDFENIME ISSWGGKPSP FSKLDPKVKA AFTRAYNKEA HLTPYSLQAI KASRHSTSPS LDSEYNEELN EDDSQSDEKD QDAIETDAMI KKKTKSSKPS KPEKDKEPRK GKGKSSKK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.** |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalien cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. |
| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
| Grade: | custom-made |

## Target Details

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| Target: | RFC1 |
| Alternative Name: | RFC1 (RFC1 Products) |
| Background: | Replication factor C subunit 1 (Activator 1 140 kDa subunit) (A1 140 kDa subunit) (Activator 1 large subunit) (Activator 1 subunit 1) (DNA-binding protein PO-GA) (Replication factor C 140 |

## Target Details

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| | kDa subunit) (RF-C 140 kDa subunit) (RFC140) (Replication factor C large subunit),FUNCTION: The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins PCNA and activator 1. This subunit binds to the primer-template junction. Binds the PO-B transcription element as well as other GA rich DNA sequences. Could play a role in DNA transcription regulation as well as DNA replication and/or repair. Can bind single- or double-stranded DNA. {ECO:0000269\|PubMed:8999859}., FUNCTION: Interacts with C-terminus of PCNA. 5' phosphate residue is required for binding of the N-terminal DNA-binding domain to duplex DNA, suggesting a role in recognition of non-primer template DNA structures during replication and/or repair. {ECO:0000269\|PubMed:8999859}. |
| Molecular Weight: | 128.3 kDa |
| UniProt: | P35251 |
| Pathways: | Telomere Maintenance, DNA Damage Repair, DNA Replication, Synthesis of DNA, Dicarboxylic Acid Transport |

## Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |

 