

## Product datasheet for PH301138

### RFC2 (NM\_002914) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RFC2 MS Standard C13 and N15-labeled recombinant protein (NP_002905)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201138
Predicted MW:	35.2 kDa
Protein Sequence:	>RC201138 protein sequence Red=Cloning site Green=Tags(s)
	MEVEAVCGGAGEVEAQSDPAPAFSKAPGSAGHYELPWVEKYRPVKLNEIVGNEDTVSRLEVFAREGNVP NIIAGPPGTGKTTTILCLARALLGPALKDAMLELNASNDSMTDGAQQALRRRTMEIYSKTTTRFALACNAS DKIIEPIQSRCAVLRYSKLTDAQILTRLMNVIEKERVPTDDGLEAIIIFTAQGDMRQALNNLQSTFSGFG FINSENVFKVCDPHPLLVKEMIQHCNVANIDEAYKILAHLWHLGYSPEDIIGNIFRVCKTFQMAEYLKL EFIKEIGYTHMKIAEGVNSLLQAGLLARLCQKTMAPVAS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_002905</a></u>
RefSeq Size:	1657
RefSeq ORF:	960
Synonyms:	RFC40
Locus ID:	5982



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UniProt ID: [P35250](#), [Q75MT5](#)

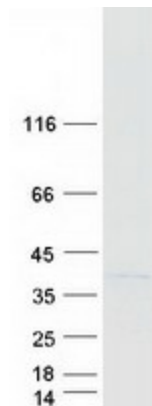
Cytogenetics: 7q11.23

**Summary:** This gene encodes a member of the activator 1 small subunits family. The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins, proliferating cell nuclear antigen (PCNA) and replication factor C (RFC). Replication factor C, also called activator 1, is a protein complex consisting of five distinct subunits. This gene encodes the 40 kD subunit, which has been shown to be responsible for binding ATP and may help promote cell survival. Disruption of this gene is associated with Williams syndrome. Alternatively spliced transcript variants encoding distinct isoforms have been described. A pseudogene of this gene has been defined on chromosome 2. [provided by RefSeq, Jul 2013]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** DNA replication, Mismatch repair, Nucleotide excision repair

### Product images:



Coomassie blue staining of purified RFC2 protein (Cat# [TP301138]). The protein was produced from HEK293T cells transfected with RFC2 cDNA clone (Cat# [RC201138]) using MegaTran 2.0 (Cat# [TT210002]).