

Product datasheet for SC114290

RTF2 (NM_016407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTF2 (NM_016407) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTF2
Synonyms:	C20orf43; CDAO5; HSPC164; RTFDC1; SHUJUN-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114290 sequence for NM_016407 edited (data generated by NextGen Sequencing) <pre> ATGGGTTGCGACGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAG GTTGAGAAAGTTCGACAAAGATGCTGAATTAGTGGCCCAATGGAACCTATTGACTCTAAGT CAGGAAATATTAAGACGACCAATAGTTGCCTGTGAACTTGGCAGACTTTATAACAAAGAT GCCGTCATTGAATTTCTCTTGGACAAATCTGCAGAAAAGGCTCTTGGGAAGGCAGCATCT CACATTAAGCATTAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAA GGGGATAAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGGCTTTCATC TGCCCCGTTGTGGGCTGGAGATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGC GGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATAAAAGCGGAAGTTTGCCACACGTGT GGGGCTGCCTTCCAGGAGGATGATGTCATCGTGCTCAATGGCACCAAGGAGGATGTGGAC GTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAGAAAGAAACAAAG AAACCCAGGCAGCAGAGTCTGTTTCAAAACAGATGTCAAGTGAAGAAGCCCCAGGGCCA TCAAAAGTTAAGACAGGGAAGCCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAC AACTTGGCTCCCAAAAGCACAGCAATGAATGAGAGCTCTTCTGGAAAAGCTGGGAAGCCT CCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAATCGGAGGCCTACAAGTCC CTCTTTACCACTCACAGTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCACTGGGTCACC CACACGTCCTACTGCTTCTGA </pre>

Clone variation with respect to NM_016407.3

511 a=>g



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016407 unedited
 NAAGGGTGCACCTATTATGTAATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCT
 GGCTCTGACTCCCGTCTGCGATGGGTTGCGACGGGGGAACAATCCCCAAGAGGCATGAA
 CTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGATGCTGAATTAGTGGCCAA
 TGGAACTATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAACCT
 GGCAGACTTTATAACAAAGATGCCGTCTTGAATTTCTCTTGGACAAATCTGCAGAAAAG
 GCTCTTGGGAAGGCAGCATCTCACATTAAGCAATTAAGAATGTGACAGAGCTGAAGCTT
 TCTGATAATCCTGCCTGGGAAGGGGATAAAGGAAACACTAAAGGTGACAAGCACGATGAC
 CTCCAGCGGGCGCGTTTCTGCTGCCCCGTTGTGGGCTGGAGATGAACGCCGACACAGG
 TTCTGCTTCTTCGCTGCTGCGGCTGTGTGTTTCTGAGCGAGCCTTGAAAGAGATAAAA
 GCGGAAGTTTGCCACACGTGTGGGCTGCCTTCCAGGAGGATGATGTCATCGTGTCAAT
 GGCACCAAGGAGGATGTGGAGTGTGAAGACAANGATGGAGGAGAGAAGGCTGAGAGCG
 AAGCTGGAAGAATAACATAGATACCAAGGCAGCAGAGTCTGTTTCAAACAGATGTC
 AGTGAAGAAGCCAGGCCATCAAAGTTAAGACAGGGGAGCCTGTAGAACCAGCCTTGA
 TTCTAAAGAGAAGAAACCAACTTGNCTCCCAAAAGCACAGCAATGAATGAGAGCTTTTTT
 TGAAAAAGCTGGGAAGCCTCCGTGTTGAGCCACCAAGAGTTCATCGCTGCCATGAAGAAT
 CGGAGGCCTCAAGTCCTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016407 unedited
 AGCTATGGACCCGCGCCGAATCTAGGATCGAGNNNTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTGGAAAGAGGCAAACAGCTTTATTTTTGAACCAATCACCGG
 GTGCCCAACTATGACTTTGCTATTTTCGAAATGATGAAATGGGGCACACTCCCCTAACAG
 TATTTAGCTAGACCAACAAGGATCCTGGCTCCTCCAGGGCTGTAAACAAAGGACGAGGC
 CCTTCGAAGCTTTTAGGGGGCACAGGATTTTGAATCCATCCTTTTTAAAGCCAGTTT
 CACTTGGCCTACTTGATTATTGGTGGGAGCAAGATCATTAAATTTTAGTTAATTAATA
 TGGGCCAACTCTGCACCGGGGAGGACTCTGGAGTCTTGTGTTACTGCAAGCATAAAAAGT
 GCAGCCCACAGGGCTTCTGGCCATGAAAGGACCAATGCACCTGCAGGTGGAACAAG
 CATGACCTCGGGCAGTGTGCAGCCCCTCCCATGTCCCCCTGGAACCGACAGCCTCAC
 ATCAAGAGTGGCCACACAGCTTGAAGGCTGGCCAGGACAGCTTTATGACACAGAATAT
 TGAGAGAACACACAGCAGCGCACTCAGAGGCACAAAGCGACCTGCCTACGTGGAACTAA
 ACAACCTTCTGGGGCAGGAACGGTGGCAATGCGGGCTTCAAAGCAGTAGGACGTGTGGGT
 GACCCAGTGGGCAGACTCCTCCTTGGAGCGCTTGGCGGAGCTGTGAGTGGTAAGAAGGA
 CTTGTAGGCCTCCGATTCTTACTGGCAGCGATGGACCTTTTGGGGCTCCAACGNGAGC
 CTCCCAGCTTTTCAGAGAGCTCTCATGCTGGCTTTTGGAGCCAGATGGTTTTTCTTC
 TAGAATAAGGCTGCTTCTCAAGCTTCTGGTTAACN

Restriction Sites:

NotI-NotI

ACCN:

NM_016407

Insert Size:

1610 bp

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).

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:	<u>NM_016407.1, NP_057491.1</u>
RefSeq Size:	1639 bp
RefSeq ORF:	921 bp
Locus ID:	51507
UniProt ID:	<u>Q9BY42</u>
Cytogenetics:	20q13.31
Domains:	DUF602
Gene Summary:	Replication termination factor which is a component of the elongating replisome (Probable). Required for ATR pathway signaling upon DNA damage and has a positive activity during DNA replication. Might function to facilitate fork pausing at replication fork barriers like the rDNA. May be globally required to stimulate ATR signaling after the fork stalls or encounters a lesion (Probable). Interacts with nascent DNA (PubMed:29290612).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a.