

Product datasheet for **SC322173**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322173
GCTTTGGGGTTTGTCTGCTGGCTCTGACTCCCGTCCTGCGATGGGTTGCGACGGGGGAAC
AATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGTTGAGAAGGTCGACAAAGA
TGCTGAATTAGTGGCCCAATGGAATATTGTAATCTAAGTCAGGAAATATTAAGACGACC
AATAGTTGCCTGTGAACCTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTT
GGACAAATCTGCAGAAAAGGCTCTTGGGAAGGCAGCATCTCACATTAAGCAATTAAGAA
TGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGATAAAGGAAACACTAA
AGGTGACAAGCACGATGACCTCCAGCGGCGCGTTTCATCTGCCCGTTGTGGCCTGGA
GATGAACGGCCGACACAGGTTCTGCTTCTTCGGTGTGCGGCTGTGTGTTTTCTGAGCG
AGCCTTGAAGAGATAAAAGCGGAAGTTTGCCACACGTGTGGGCTGCCTTCAGGAGGA
TGATGTGTCATCGTCTCAATGGCACCAAGGAGGATGTGGACGTGCTGAAGACAAGGATGGA
GGAGAGAAGGCTGAGAGCGAAGCTGGAAAAGAAAACAAAGAAACCAAGGCAGCAGATC
TGTTTTCAAACAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAGTTAAGACAGGGAA
GCCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAAGCAC
AGCAATGAATGAGAGCTCTTCTGAAAAGCTGGGAAGCCTCCGTGTGGAGCCACAAGAG
GTCCATCGCTGACAGTGAAGAATCGGAGGCCTACAAGTCCCTCTTACCACTCACAGCTC
CGCCAAGCGCTCCAAGGAGGAGTCTGCCACTGGGTCAACCCACACGTCTCTACTGTTCTG
AAGCCCGCACTGCCACCGCTCCTGCCCCAGAAGTTGTTTAGTTTCCACGTAGGCAGGTC
GCTTTGTGCCTCTGAGTGCCTGCTGTGTGTTCTCTATAGTTCTGTGCATAAAGCTG
TCCTGGCCAGCCTTCAAGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTGGTTCCAGGG
GGGACATGGGAGGGGCTGCACAGTGGCCGAGGTGATGCTTCCACCTGCAGGTGCA
TTTGGTCTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTATGCTTGCAAGTAA
AGAGACTCCAGAGTCTCACCGGTGCAGAGTTGGCACATATTAATTAATAAAATTCTAA
TGATCTTGCTACCAAGCAATAAATCAAGTAGGCCAAGTGAAGTGGGCTTTAAAAAGGATG
GATTTCAATACTGTGCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCC
CTGGGAGGAGCCAGGATCCTTGTTGGTCTAGCTAAATACTGTTAGGGGAGTGTGCCCCAT
CTCATCATTTTGAAGATAGCAGAGTCATAGTTGGGCACCCAGTGATTGGGTTCAAAAATA
AAGCTGGTCTGCCTCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016407

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.