

Product datasheet for **SC126672**

RINT1 (NM_021930) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RINT1 (NM_021930) Human Untagged Clone
Tag:	Tag Free
Symbol:	RINT1
Synonyms:	ILFS3; RINT-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126672 sequence for NM_021930 edited (data generated by NextGen Sequencing)

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ATGCTACCAGCCGGCGAGATCGGCGCCTCTCCTGCAGCCCCGTGCTGCTCTGAAAGTGGT
GACGAAAGGAAGAACCTCGAGGAGAAAAGTGACATAAATGTTACAGTTCTTATTGGAAGT
AAACAAGTCAGTGAAGGTACAGATAATGGTGATCTCCCTTCTTATGTGTCTGCATTGATA
GAAAAGGAAGTTGGAAATGACCTTAAATCTTTAAAGAACTTGATAAACTCATAGAACAG
AGGACAGTAAGTAAATGCAGTTAGAAGAACAGGTAACAATTCATCAGAAATTCCT
AAAAGAATTCGAAGTGCCCTTAAAAAATGCAGAAGAAATCAAGCAATTTCTTAATCAGTTT
CTGGAGCAGGAAACTCATCTCTTCAGCGCCATTACAGCCATTTGCTGACTGCGCAACCT
TGGATGGACGATCTTGAACCATGATTAGCCAGATTGAAGAGATCGAACGTCATCTTGCT
TACCTTAAATGGATTTACAAAATTGAAGAACTAAGTGATAACATTCAGCAATATCTGATG
ACCAATAATGTACCGAGGCAGCCTCCACTCTAGTGTCTATGGCAGAACTTGACATTAA
CTTCAGGAATCATCTTGTACTCATCTTCTTGGTTTCATGAGAGCCACAGTTAAATTCGG
CATAAAATTCCTCAAGGACAAGCTTACAAGTGATTTTGAGGAAATTTAGCACAGCTTCAT
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CCGGAGATATACAGTTACCTGGAGACACTGTTTTGTCAGCTTTTGAAACTACAAACCTCA
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TCTGTCATCCTGCCCATCCAGGTTATGCTGACTCCTCTTCAGAAGAGGTTGAGGTATCAC
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ACACAAGTGATGAAAGAAGAGACTAGAGCTTCCCTTGGCTTTGATACTGTGCAATTCTT
AATGCTGTGAACTACATCTCAACAGTACTAGCAGATTGGGCTGACAATGTTTTCTTTCTA
CAACTTCAACAGGCTGCACTGGAGGTGTTGCAGAGAATAATACTCTGAGTAAATTGCAG
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CGTTTAAAGCATGATATGTTGACCCGTCAAGTAGACCACGTTTTTAGAGAAGTTAAAGAT
GCTGCAAAATTGTATAAAAAAGAAAGATGGTTGTCCTTGCCATCTCAGTCAGAGCAGGCA
GTGATGTCCCTGTCCAGTTCGGCTTGCCCGTTGCTGCTGACGTTACGAGACCATTTACTT
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GCAGCCCAGCTGCAGTTTGATATGACTCGGAATCTTTCCCTTTGTTTTCTCACTATTGC
AAGAGACCAGAAAAATTATTTTAAACATATAAAAGAAGCCTGTATTGTTTTGAATTTGAAC
GTCGGTTCTGCACTACTGCTGAAAGATGTACTGCAGTCAGCTTCAGGGCAGCTTCCCTGCC
ACAGCAGCATTAATGAAGTTGGAATTTACAACTGGCTCAACAAGATGTTGAGATTCTA
CTTAATTTGAGGACAAATTGGCCTAATACTGGAATAA

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Clone variation with respect to NM_021930.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021930 unedited <pre> TTTGTATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTCAGTCCTACGGCC TCCGAGGCTGGGTAGTGAGTGTGTCTGCTGGCCTTAGCCAGACTCCACAGGCCACGCTGGC TGCGAATGGAGCCGAGGACTCGCGCGGAGGCGAGATGCTACCAGCCGGCGAGATCGGCGC CTCTCTGCAGCCCCGTGCTGCTCTGAAAGTGGTGACGAAAGGAACAACCTCGAGGAGAA CAGTGACATAAATGCTACAGTTCTTATTGGAAGTAAACAAGTCAGTGAAGGTACAGATAA TGGCGATCTCCCTTCTTATGTGTCTGCATTCATAGAAAAGGACGTTGGAATGACCTTAA ATCTTTAAAGAACTTGATAAACTCATACAACAGAGGACAGTAAGTAAATGCAGTTAGA AGAACAGGTACTCACAATTCCATCACAATTCTTAAAGAAATTCGAAGCGCCTTAAAAAA CGCAGAACTCAAGGCCCTCCTTAATCACGCCCTGGAGCAGGAACTCATCTCTTCA GCGCCACTAACAGCCATTTGTTGACTGCCCAACCTTGGATGGACGATCTTGAACCATGA TCACCCAGATTGAAGAGATCGACCGTCACCCCGCCTTACCCTAACCGGATCCACACATG CAACAATAAGTGATACCCTTCCCACTACCTGATGACCACTCCCGCACCAGGAGGAGCC CTCCACTCTAGTGTCTATGGCCGACCTCGCCCCAACTTGACGAATCCCCCGCACCCC TCCCTTTTCGCCCCCTGCACCGCCAGCTAGATCTCGCGCTTAAATTTTTCATGCACC ACCTCCCAAGCGGACTTTGAGGCAACTTCATCCAAGTTTCTTGGCCATCCCTCGCCACC CCCCAACCCAACTGGTGGC </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021930 unedited <pre> TTGGGATAAAATATACTGTTTATGTTTGNATTATNCCACAACANAATTTCCCTTAATT AGCACAGGAAATTGAAAGTTGGTTATAATTTAATATCTCTGCTCGTCTTCAACAGACATA CTCAGCATTTATACTTGTAAATAGAATTGAGTTTTTCATTGTTTCTGTTTTCTGTTTTGTT TCCTTAGGAACAAGAGGATGAAGGAAATATGGTCTTTATTTTAATACACCATAAATCCA AGATAATAAGTAATTCTATAAAGTTTTCCAGTTTCATTAATTCAGAAATTCATCATATAA CTTGAAATCCAATTGGCTTCCTCTTCTTAGAAACAAAACCAAGAAACCTTTTTCTGA AAGACATTATTTCCAGTATTAGGCAATTTGTCTCAATTAAGTAGAATCTCAACATC TTGTTGAGCCAGTTTGTAAATCCAACCTCATTTAATGCTGCTGTGGCAGGAAGCTGCC TGAAGCTGACTGCAGTACATCTTTCAGCAGTAGTGCAGAACCGACGTTCAAATTCAAAAC AATACAGGCTTCTTTATATGTTTAAAAATAATTTCTGGTCTCTTGAATAGTGAGAAAA CAAAGGGGAAAAGATCCCGAGTCATATCAAACTGCAGCTGGGGCTGCTCCTCCTTTCATG AAGTGATTAGCAAGATTATTTCTTGGTAGATGTATACATCCAGCTTCTCTACCAGCTTTT GCCAGAAAATTTAAATTAAGAGAAAACAAGCTGCTGCTCCAATGAAATTAATGGTCTCG TAACGTCGCGAGCAACGGGGCAAGCCGAACCTGGACCAGGACCTCACTGCCTGCTTCTGAC TTGAATGGCAAGGACAAACCTCTTTTTTTTAAATACAATTTGCACCTTCTTAACTTTT CAAAAACGTGGGTTTATTGAAGGGGCAACAATTATGGCTTTAACTTTCTAAAGGTAA CCTGTGCTTAAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021930
Insert Size:	3000 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_021930.3, NP_068749.3</u>
RefSeq Size:	2991 bp
RefSeq ORF:	2379 bp
Locus ID:	60561
UniProt ID:	<u>Q6NUQ1</u>
Cytogenetics:	7q22.3
Domains:	RINT1_TIP1
Gene Summary:	This gene encodes a protein first identified for its ability to interact with the RAD50 double strand break repair protein, with the resulting interaction implicated in the regulation of cell cycle progression and telomere length. The encoded protein may also play a role in trafficking of cellular cargo from the endosome to the trans-Golgi network. Mutations in this gene may be associated with breast cancer in human patients. [provided by RefSeq, Oct 2016]