

## Product datasheet for SC315020

### RNF20 (NM\_019592) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RNF20 (NM_019592) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF20
Synonyms:	BRE1; BRE1A; hBRE1
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_019592 edited  
TTCTGCCTTGTCTCCGCCGCGGGTCAGGGGTGAGAGCTGGAATCTCTGCACGGGCCTTGG  
AAAACGACTGTCTTCTTCTGCCAAAATGTCAGGAATTGGAATAAAGAGCAGCTGGAGA  
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GGAAACAATTAAGCTAGGAGGTGTCTTCAACGGAGGAACTAGACATTAGAACACTGCA  
AACCAAAAATCGCAAGCTGGCAGAAAATGTTGGATCAGCGCAGGCCATTGAAGATGAACT  
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TGTCAACCGATACTGGAGTCAGTTTGTGAAAACATCCGTATCATCCTTAAACGTTATGA  
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AGATCAGCTGGCTTTCTTGTAAAGTTATTTAAGTTTTGAATGCTCTACTACTTCAAGTC
TTTAAATTTCTTGAGACTAGAATAATTTTAAATAATATGACCCTTTGTCTTCTAATGAAA
TAAAGATTGAAGAGGTTGAGTATAGTCC
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_019592
- Insert Size:** 4700 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_019592.5.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_019592.5</a> , <a href="#">NP_062538.5</a>
<b>RefSeq Size:</b>	3970 bp
<b>RefSeq ORF:</b>	2928 bp
<b>Locus ID:</b>	56254
<b>UniProt ID:</b>	<a href="#">Q5VTR2</a>
<b>Cytogenetics:</b>	9q31.1
<b>Domains:</b>	RING
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	The protein encoded by this gene shares similarity with BRE1 of <i>S. cerevisiae</i> . The protein encoded by this human gene is an E3 ubiquitin ligase that regulates chromosome structure by monoubiquitinating histone H2B. This protein acts as a putative tumor suppressor and positively regulates the p53 tumor suppressor as well as numerous histone H2A and H2B genes. In contrast, this protein also suppresses the expression of several protooncogenes and growth-related genes, including many genes that are induced by epidermal growth factor. This gene selectively suppresses the expression of some genes by interfering with chromatin recruitment of transcription elongation factor SII (TFIIS). [provided by RefSeq, Feb 2012]