

Product datasheet for MC223131

Rnf40 (NM_172281) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf40 (NM_172281) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnf40
Synonyms:	AI848422; BRE1-B; mKIAA0661
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223131 representing NM_172281 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCTGGCCTCAGCAACAAGCGCGCCGCCGCGACGGGGGCTCAGGACCCCGAGAGAAGAAGATGAACC
 GCGAGGAGAAGACCAGCACTCTAATCGAACCCATTCGTCTCGGCGGCATTTCTCCACGGAGGAGAT
 GGATTCCAAGGTACTGCAGTTCAAGAACAAGAAGCTGGCGGAGCGGTTGGAGCAGCGGCAAGCCTGCGAG
 GATGAGCTCCGGGAGAGAATTGAGAAATTGGAGAAGAGGCAGGCCACTGATGATGCCACACTCCTCATCG
 TCAACCGTACTGGGCCAGCTGGATGAACTGTAGAAGCCCTCTCCAGTGCTACGAGAACCAGAGGGA
 ACTGTCTTCAGGGACAGAGGTGCCTGGGTGCCAAGAGGGCCTGACCCGTGATGTGATCCCTCGACCAGAC
 CCAGGGACATCAGATCTGAGGGAACCGCTGCCAGTGCAAGTTTCGAGCCCTCTCAGTGAGCCGGCCTTGG
 CTTTTGTGGTGGCACTGGGCGCCAGCAGCTGTGAGGAAGTGGAGCTGCAGCTGCAGGGTCGGATGGAATT
 CTCCAAGGCTGCCGTGTCTCGGGTGGTCGAGGCCCTCGGACCGCTGCAACGGCAGGTGGAAGAACTCTGT
 CAGCGAGTATACAGCCGGGGGACAGTGAGGCCCTGGGAGGTGGCACGGGTGCCACCCGGGAGCTAG
 GCAGAGAGAACCCTAGGCTACAGGACTTGCCACTCAGCTGCAAGAGAAACACCACCGCATCTCGTTGGA
 GTACTCTGAGCTCCAAGATAAAGTGACATCGACAGAGACCAAGGTCCTAGAGATGGAGACCACAGTGGAG
 GACCTGCAGTGGGACATTGAGAAGCTGCGCAAGCGAGAACAAGCTCAATAAGCACTTGGCAGAGGCCCT
 TGGAGCAGCTCAACTCCGGCTACTATGTGTCTGGGAGCTCCACAGGCTTTCAGGGAGGCCAGATTACACT
 CAGCATGCAGAAGTTTGAGATGTTGAATGCAGAGCTGGAAGAAAATCAGGAATTGGCCAATAGCCGAATG
 GCAGAGCTGGAGAAGCTGCAGGCGGAGCTTCAGGGAGCCGTTCCGACCAATGAGCGTCTCAAGGTGGCC
 TGCGTAGCCTTCTGAGGAGTCTGTCGTGAGACAGGGGAGTACCGCATGCTGCAGGCACAGTCTCCCT
 GCTCTACAATGAGTCTTTGCAAGTGAAGACCCAGCTCGATGAGGCCCGGGGTTGCTGCTGGCCTCCAAG
 AACTCCCACTTGAGACACATTGAACATATGGAGAGTGATGAATTGGGGCTGCAGAAGAAGCTGCGCACAG
 AAGTTATCCAGCTGGAAGACACCCTGGCCAGGTACGCAAGGAGTACGAGATGCTGCGCATCGAGTTTGA
 ACAGAACCTTGGGCCAACGAGCAGGCTGGGCCTATCAACCGGGAATGCGCCACCTGATTAGCAGCCTC


[View online »](#)

CAGAACCACAATCACCAGCTAAAAGGAGATGCCAGCGATACAAGCGGAACTTCGAGAAGTACAGGCTG
 AGATTGGTAACTCCGGGCACAGGCCAGCGGCTCTTCCCACTGCATTCCACCCCTGAGCCACCCAGATGA
 CCCTGGCCTCAATGCCCTTGCCCAGGGAAGGAAGATAGTGGGCCAGGCCTGGAGGTACCCCTGACTGC
 AAGAAGGAGATGGCTTTATTGGCTGGAGCCACCTCTGCTACTTCTTCCATAAAGAAAGAGGAGCTGGTCT
 CCTCTGAAGATGACGCCAGGCCCTAACCCCTGTAACCCAGGGCTTGCCCTCCAGGGGTCGAGAACCTGA
 GGCCAGACCCAAGCGAGAACTTCGGGAACGGGAAGGGCCTAGCCTAGGACCCCACTGCAGCCTCACT
 CTGTCAAGGGCTGATCGAGAAAAGGCCAAGGTGGAAGAAGCCAAAAGGAAGGAATCGAACTGCTCAAAG
 GTCTCCGAGCAGAGCTCAAGAAGGCTCAGGAAAGCCAGAAGGAGATGAAGCTGCTCTGGACATGTACAA
 GTCAGCACCCAAGGAGCAGCGGGACAAGGTGCAGCTCATGGCAGCTGAGCGCAAGGCCAAGGCTGAGGTG
 GATGAGCTTCGGAGCCGATCCGAGAGCTGGAAGAACGAGACCGAAGAGAAAGCAAGAAGATTGCGGATG
 AAGATGCCCTGCGGCGGATCCGGCAGGCAGAAGAGCAGATTGAACACTTGCAACGCAAAATTGGGTGCCAC
 CAAGCAGGAGGAGGAGCGTGTGCTGCGGAGATGGATGTAAAGGTGAGGCTTTTGAAGACATGCAGGAG
 CAAAACGGGCGGCTACTTCAGCAGTTACGGGAAAAGGATGACGCCAACTTCAAGCTCATGTCGGAGCGGA
 TCAAGGCCAACAGATTACAAGCTGCTCCGAGAGGAGAAGGATGAGTTGGCGAGCAGGTTCTTGGCCT
 TAAGTCCAGGTGGATGCCAGCTGCTGACCGTACAGAAGCTTGAGGAGAAGGAGCGGGCTCTGCAGGGC
 AGCCTCGGGGTTGGAAGAGGAGTTGACTCTGCGCAGCCAGGCTCTGGAGCTTAATAAGAGAAAGGCTG
 TAGAAGCAGCCCAGTTGGCTGAGGACCTGAAGGTGCAGTTGGAGCATGTGCAGACTCGACTTCGAGAGAT
 CCAGCCCTGCCTGGCAGAGAGCCGGGCTGCCCGGGAAGGAGAGCTTCAACCTCAAGAGGGCTCAGGAG
 GACATTTCCCGGCTTCGGCGAAAAGTAGAGAAACAGCGGAAAGTGAGGTTTATGCAGATGCTGACGAGA
 TCCTGCAGGAGGAGATCAAGGAGTACAAGGCCCGGTTGACCTGCCCTGCTGTAAACCCGCAAGAAGGA
 TGCCGTGCTTACCAAGTGCTTCCACGTTTCTGCTTTGAATGTGTGCGGGGCCGCTATGAGGCCCGCCAG
 AGGAAATGTCCCAAGTGAACGCAGCCTTTGGTGCCACGACTTCCACCGTGTGTACATCAGCTGA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_172281
Insert Size:	3006 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172281.2</u> , <u>NP_758485.2</u>

RefSeq Size: 4172 bp

RefSeq ORF: 3006 bp

Locus ID: 233900

UniProt ID: [Q3U319](#)

Cytogenetics: 7 F3

Gene Summary: Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B; reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. [UniProtKB/Swiss-Prot Function]