

Product datasheet for **MR211421**

Rnf40 (NM_172281) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Rnf40
Synonyms:	A1848422; BRE1-B; mKIAA0661
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >MR211421 representing NM_172281
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211421 representing NM_172281

Red=Cloning site Green=Tags(s)

MSGLSNKRAGDGGSGPPEKKMNREEKTTTTLIEPIRLGGISSTEEMDSKVLQFKNKKLAERLEQRQACE
DELRERIEKLEKRQATDDATLLIVNRYWAQLDETVEALLQCYENQRELSSGTEVPGCQEGLTRDVI PRPD
PGTSDLREPLPVQFRAPLSEPALAFVVALGASSCEEVELQLQGRMEFSKAAVSRVVEASDRLQRQVEELC
QRVYSRGDSEAPGEVARVRTRELGRENRRLQDLATQLQEKHHIRISLEYSELQDKVTSTETKVLEMETTVE
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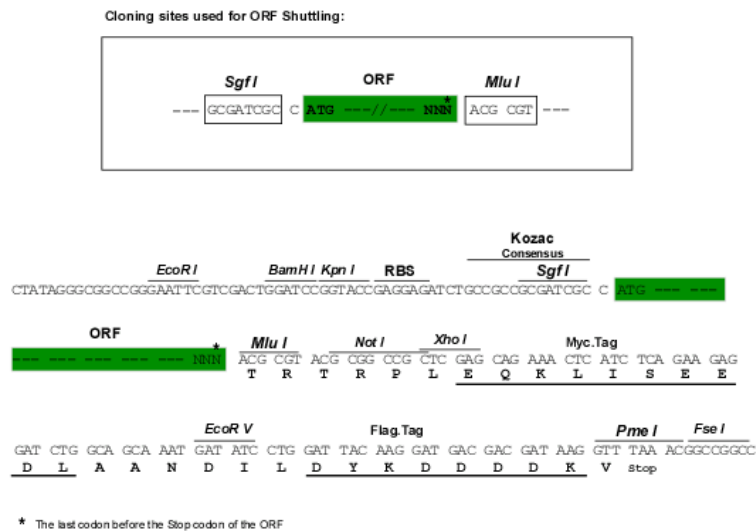
Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_f12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

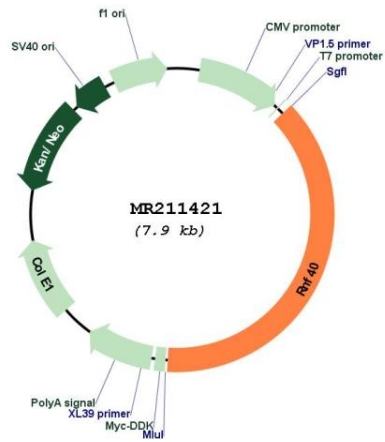
NM_172281

ORF Size:

3003 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_172281.2 , NP_758485.2
RefSeq Size:	4172 bp
RefSeq ORF:	3006 bp
Locus ID:	233900
UniProt ID:	Q3U319
Cytogenetics:	7 F3
MW:	114.4 kDa
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]

Product images:



Circular map for MR211421