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Product datasheet for MR200889

Pnrc2 (NM_026383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnrc2 (NM_026383) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnrc2
Synonyms:	0610011E17Rik; D4Bwg0593e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR200889 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTGGCGGAGAGAGGTATAACATTCCAGACCCTCAATCTAGAAATGCTAGTAAGAACCAAGAACAGC
AAAATAGACAGAAGAGCAAGGATCAGAATTCTTCCCAGACGAAGATTGCTCATAAGAAAAAGGAACGAGG
ACATGGGTACAATCCAGCAGCAGCAGCATGGCAGGCCATGCAAAATGGGGGAAAGACCAAGAGCCTTTCT
AACAACTCCAACTGGAATGCTGGTTTATCAAGTCCTAGCTTGCTTTTTAAGTCTCAAGCTAGTCAGAACT
ATGCTGGAGCCAAATTTAGTGAACCACCATCACCAAGTGTTCTCCCCAAGCCACCAAGCCACTGGGTTCA
TGTTTCCTTGAACCCTTCAGATAAGGAAACGATGACATTTCAACTTAAAACCTTACTTAAGGTACAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR200889 protein sequence
Red=Cloning site Green=Tags(s)

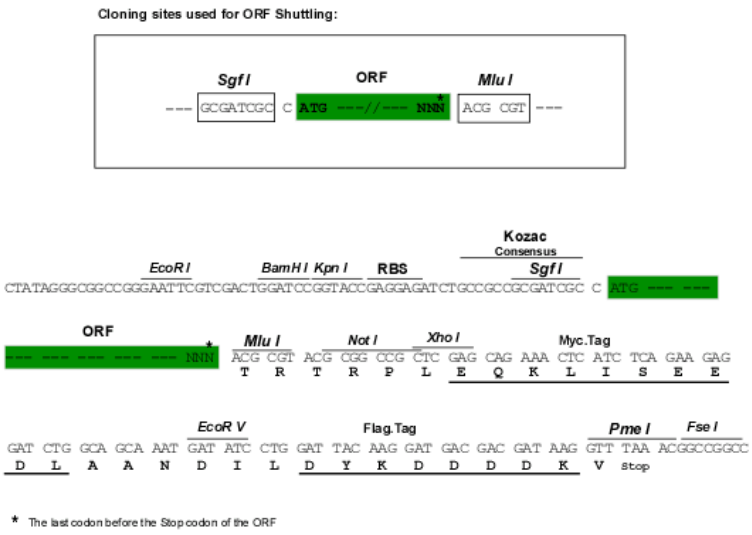
MGGGERYNIPDPQSRNASKNQEQQNRQKSKDQNSSQTKIAHKKKERGHGYNPAAAAWQAMQNGGKTKSLS
NNSNWNAGLSSPSLLFKSQASQNYAGAKFSEPPSPSVLPKPPSHWVHVSLNPSDKETMTFQLKTLLKVQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_026383
ORF Size:	423 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.
RefSeq:	NM_026383.3
RefSeq Size:	1907 bp
RefSeq ORF:	423 bp
Locus ID:	52830

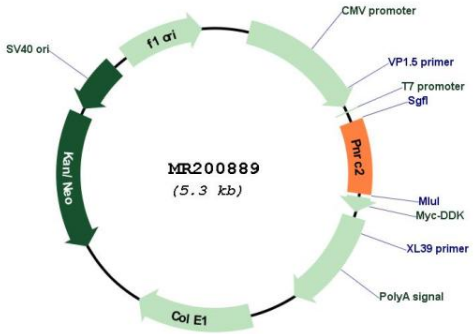
UniProt ID: Q9CR73

Cytogenetics: 4 68.01 cM

MW: 15.4 kDa

Gene Summary: Involved in nonsense-mediated mRNA decay (NMD) by acting as a bridge between the mRNA decapping complex and the NMD machinery (By similarity). May act by targeting the NMD machinery to the P-body and recruiting the decapping machinery to aberrant mRNAs (By similarity). Required for UPF1/RENT1 localization to the P-body (By similarity). Plays a role in glucocorticoid receptor-mediated mRNA degradation by interacting with the glucocorticoid receptor NR3C1 in a ligand-dependent manner when it is bound to the 5' UTR of target mRNAs and recruiting the RNA helicase UPF1 and the mRNA-decapping enzyme DCP1A, leading to RNA decay (By similarity). Also acts as a nuclear receptor coactivator. May play a role in controlling the energy balance between energy storage and energy expenditure (PubMed:17971453).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200889