Product datasheet for MR229063

Pqbp1 (NM_001252529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pqbp1 (NM_001252529) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pqbp1
Synonyms:	npw38; PQBP-1; Sfc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>MR229063 representing NM_001252529
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGACCAGTTAATTGCACCTGGGGAGAGTCGAGGAGCCTGTTGTGCTTTAAACCAAGAGCCCTTCGGT
GTTGGTCTGGTCAGCTACCCACTATGCCGCTTCCTGTTGCGCTGCAGACCCGCTTGGCGAAGAGGGGCAT
CCTCAAACATCTGGAGCCGGAGCCAGAGGAAGAGATTATTGCTGAAGACTACGATGATGATCCTGTTGAC
TATGAGGCCACCCGGATAGAGGGTCTGCCACCGAGCTGGTACAAGGTGTTTGACCCTTCTTGCGGACTCC
CTTACTATTGGAATGTGGAGACAGACCTTGTGTCGTGGCTCTCACCACATGATCCTAACTTTGTCGTTAC
CAAATCCGCCAAGAAAGTCAGGAACAATAATGCAGATGCTGAGGACAAGTCGGACCGGAATCTTGAAAAG
GTGGACAGAAATCATGAGAAGTCAGATCGTAGTCATGAGAAGCCAGACAGGAGCCACGAGAAGGCAGACC
GAAACCACGAGAAGAATGACAGAGAACGAGAGCGCAACTACGACAAAGTGGATAGAGAGAGAGATCGGGA
CAGGGAACGAGAGCGGGCATTTGACAAGGCAGACCGGGAAGAGGGCAAAGACCGACGCCACCATCGCAGA
GAGGAACTGGCTCCTTACCCCAAGAACAAGAAAGCGACGAGCCGCAAAGATGAAGAATTAGACCCCATGG
ACCCCAGCTCATACTCAGATGCACCCCGGGGCACATGGTCAACAGGACTCCCCAAGAGGAACGAGGCCAA
GACAGGTGCTGACACCACGGCAGCTGGGCCCCTCTTCCAGCAGCGCCCTTACCCTTCCCCGGGCGCTGTG
CTCCGCGCCAATGCAGAAGCCTCCCGAACCAAACAGCAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

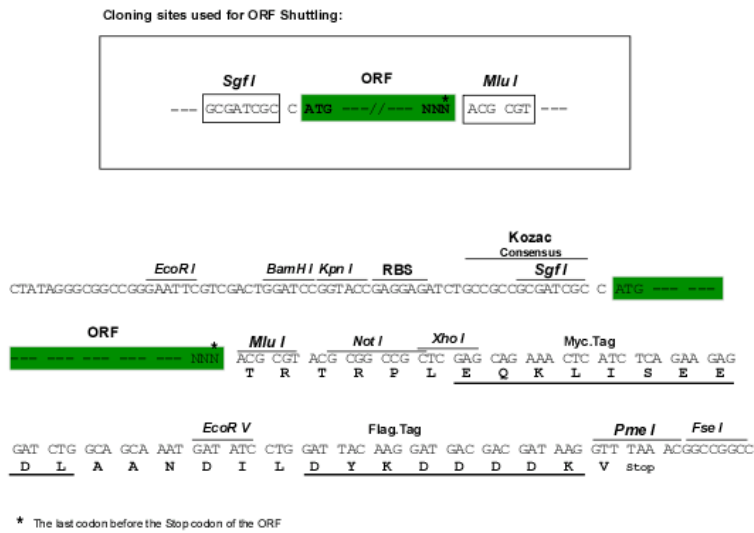>MR229063 representing NM_001252529
Red=Cloning site Green=Tags(s)

MRPVNCTWGESRSLLCFKPRALRCWSGQLPTMPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVD
YEATRIEGLPPSWYKVFDPSCGLPYYWNVETDLVSWLSPHDPNFVVTKSAKKVRNNNADAEDKSDRNLEK
VDRNHEKSDRSHEKPDRSHEKADRNHEKNDRERERNYDKVDRERDRDRERERAFDKADREEGKDRRHHRR
EELAPYPKNKKATSRKDEELDPMDPSSYSDAPRGTWSTGLPKRNEAKTGADTTAAGPLFQQRPYPSPGAV
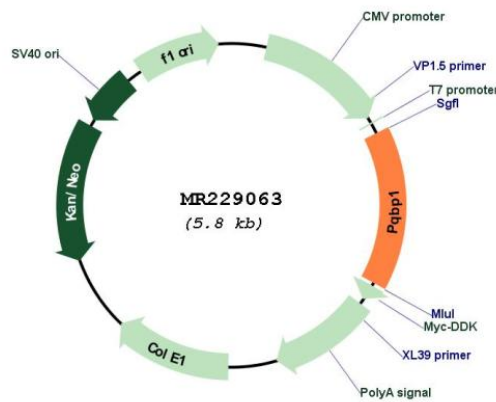LRANAEASRTKQQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN: NM_001252529

ORF Size: 882 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_001252529.1, NP_001239458.1
RefSeq Size:	1119 bp
RefSeq ORF:	885 bp
Locus ID:	54633
UniProt ID:	Q91VJ5
Cytogenetics:	X 3.56 cM
MW:	34.6 kDa
Gene Summary:	Intrinsically disordered protein that acts as a scaffold, and which is involved in different processes, such as pre-mRNA splicing, transcription regulation, innate immunity and neuron development (By similarity). Interacts with splicing-related factors via the intrinsically disordered region and regulates alternative splicing of target pre-mRNA species (PubMed:23512658). May suppress the ability of POU3F2 to transactivate the DRD1 gene in a POU3F2 dependent manner (By similarity). Can activate transcription directly or via association with the transcription machinery (By similarity). May be involved in ATXN1 mutant-induced cell death (By similarity). The interaction with ATXN1 mutant reduces levels of phosphorylated RNA polymerase II large subunit (By similarity). Involved in the assembly of cytoplasmic stress granule, possibly by participating to the transport of neuronal RNA granules (By similarity). Also acts as an innate immune sensor of infection by retroviruses, by detecting the presence of reverse-transcribed DNA in the cytosol (By similarity). Directly binds retroviral reverse-transcribed DNA in the cytosol and interacts with CGAS, leading to activate the cGAS-STING signaling pathway, triggering type-I interferon production (By similarity). [UniProtKB/Swiss-Prot Function]