

## Product datasheet for **RC229776**

### **PQBP1 (NM\_001167990) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PQBP1 (NM\_001167990) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PQBP1  
**Synonyms:** MRX2; MRX55; MRXS3; MRXS8; NPW38; RENS1; SHS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC229776 representing NM\_001167990  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGCTGCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAGGCATCCTCAAACATCTGGAGCCTGAAC  
 CAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACTACGAGGCCACCAGGTTGGAGGG  
 CCTACCACCAAGCTGCGGGCTCCCTTACTACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCA  
 CATGACCCCAACTCCGTGGTTACCAAATCGGCCAAGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAA  
 AGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATGACAAGTCGGACCGCAGCCATGAGAACTAGA  
 CAGGGGCCACGACAAGTCAGACCGGGGCCACGACAAGTCGACAGGGATCGAGAGCGTGGCTATGACAAG  
 GTAGACAGAGAGAGAGAGCGAGACAGGGAACGGGATCGGGACCGCGGTATGACAAGGCAGACCGGGAAG  
 AGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCAAGAGCAAGAAGGCAGTAAG  
 CCGAAAGGATGAAGAGTTAGACCCATGGACCTAGCTCATACTCAGACGCCCCCGGGGCAGTGGTCA  
 ACAGGACTCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCTCTCCAGC  
 AGCGGCCGTATCCATCCCAGGGGCTGTGCTCCGGGCAATGCAGAGGCTCCCAACCAAGCAGCAGGA  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC229776 representing NM\_001167990  
Red=Cloning site Green=Tags(s)

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSCGLPYWYNADTDLVSWLSP  
 HDPNSVVTKSAKKLRSSNADAEKLD RSHDKSDRGHDKSDRSHEKLD RGHDKSDRGHDKSDRDRERGYDK  
 VDRERERDRERDRDRGYDKADREEGKERRHHRREELAPYPKSKKAVSRKDEELDPMPSSYSADAPRGTWS  
 TGLPKRNEAKTGADTTAAGPLFQQRYPSPGAVLRANAASRTKQQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001167990

**ORF Size:** 771 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\\_001167990.1](#), [NP\\_001161462.1](#)

**RefSeq ORF:** 774 bp

**Locus ID:** 10084

**UniProt ID:** [O60828](#)

**Cytogenetics:** Xp11.23

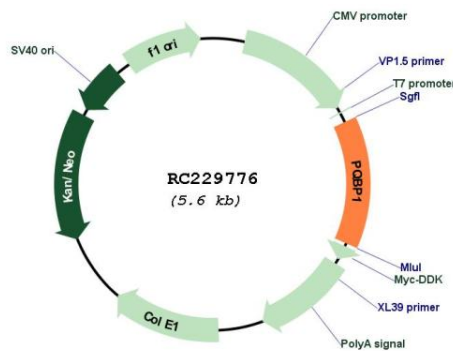
**Protein Families:** Transcription Factors

**Protein Pathways:** Spliceosome

**MW:** 29.9 kDa

**Gene Summary:** This gene encodes a nuclear polyglutamine-binding protein that is involved with transcription activation. The encoded protein contains a WW domain. Mutations in this gene have been found in patients with Renpenning syndrome 1 and other syndromes with X-linked cognitive disability. Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene.[provided by RefSeq, Nov 2009]

### Product images:



Circular map for RC229776