

## Product datasheet for SC305044

### PRRX1 (NM\_022716) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PRRX1 (NM_022716) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | PRRX1   |
| Synonyms:                 | AGOTC; PHOX1; PMX1; PRX-1; PRX1   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >SC305044 representing NM_022716.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

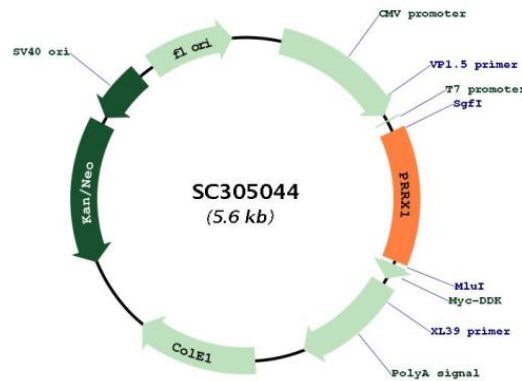
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCTCCAGCTACGGGCACGTTCTGGAGCGGCAACCGGCGCTGGGCGGCCGCTTGACAGCCCGGGC
AACCTCGACACCCTGCAGGCGAAAAAGAACTTCTCCGTACGTACCTGCTAGACCTGGAGGAAGCCGGG
GACATGGTGGCGGCACAGGCGGATGAGAACGTGGGCGAGGCTGGCCGGAGCCTGCTGGAGTCGCCGGGA
CTACCAGCGGCAGCGACACCCCGCAGCAGGACAATGACCAGCTGAACTCAGAAGAAAAAAGAAGAGA
AAGCAGCGAAGGAATAGGACAACCTTCAATAGCAGCCAGCTGCAGGCTTTGGAGCGTGTCTTTGAGCGG
ACACACTATCCTGATGCTTTTGTGCGAGAAGACCTTGCCCGCCGGGTGAACCTCACCGAGGCGAGAGTG
CAGGTGTGGTTTCAGAACCGAAGAGCCAAGTTCGCAGGAATGAGAGAGCCATGTAGCCAATAAAAAC
GCTTCCCTCCTCAAATCCTACTCAGGAGACGTGACTGCTGTGGAGCAGCCATCGTACCTCGTCCTGCT
CCGAGACCCACCGATTATCTCTCTGGGGGACAGCGTCTCCGTACAGCGCCATGGCTACTTATTCTGCC
ACATGTGCCAACAAATAGCCCTGCACAGGGCATCAACATGGCCAACAGCATTGCCAACCTGAGACTGAAG
GCCAAGGAATATAGTTTACAGAGGAACCAAGTGGCCAACAGTCAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



[View online »](#)

Plasmid Map:



ACCN: NM\_022716

Insert Size: 738 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_022716.3](#)

RefSeq Size: 3999 bp

RefSeq ORF: 738 bp

Locus ID: 5396

UniProt ID: [P54821](#)

Cytogenetics: 1q24.2

Protein Families: Transcription Factors

MW: 27.3 kDa

**Gene Summary:** The DNA-associated protein encoded by this gene is a member of the paired family of homeobox proteins localized to the nucleus. The protein functions as a transcription co-activator, enhancing the DNA-binding activity of serum response factor, a protein required for the induction of genes by growth and differentiation factors. The protein regulates muscle creatine kinase, indicating a role in the establishment of diverse mesodermal muscle types. Alternative splicing yields two isoforms that differ in abundance and expression patterns. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (pmx-1b) encodes the longer isoform (pmx-1b).