

Product datasheet for **MC204769**

Prr14 (NM_145589) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prr14 (NM_145589) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prr14
Synonyms:	BC006909
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055033
 CCGATCCCAGAGAACCTCAGGGAGGCATCTAACAGGGACAAAAGTCCCAGGAGGCTCGAGCGGTGGGAGA
 GCTGTAACCTCCGCAATCCAGTCTCGCGCAGGTGCCAGGCAGGGCCGAGTGATCAAGGCGGCTGCAGC
 GGAAGACCCGGCTCCGAGAGGCCGGCCGGGGCGCCCTTTGGAGGAAGGGCCTGTGCCCTACCGGGAGC
 CGCAGGCGGACTATGAAGGGCGGAGTCCCGGGGAGGAACTGGCCCTCATTCCCCACTCCCCGCTCCCC
 AATTTACCCAGGCCTCAGCCTGGGATACCCAGGGACTCCCCGGAACCGCCGCTCCCCCATGGACTTG
 CCTGGAACTCCAGCCCTTTACACAGCCAAGCCTGTGCCGTGAGCCTCTATCTCGAGCATCATGGGAAG
 CCAGGAGCCGAAAAGACCGAGGCTGCAGCCTTTGGGGACCCCTTCATCCCTAGAAAAGGCCTCTCGGAG
 GGTCTTGCCGTGGTGTGGAAGATGTCATGACTACAAACAGGGTCCCCCTGACACACAAAAGAGGACACT
 CCCAGCCCACTGACTCACAACCATCATCAGGATCCTGTCTGCACACAGTACCTGCTTTACCATCCCAAC
 AGGTCAAGTGGTCCATGCAAGCCAGGCCTCCTGACCCACTGCATTTGTGCAGAGAACCCTTGACTCGAGC
 CCGCCAGTCTCGCTGCCTTGAGAAATGAGATCAAGGGCAGCATCTGGCCAGAGGAGAGCCCTCAAAA
 AAGACAGACCAGTCCCACAGCCACCCTAGTGGTGGTACTGGAAGACATTGCCAGTGGCAGACAACCAG
 CAGAGGGTTTTGATGAAGATCAGCCCAACCTCATTGTCCAGCACAAAAGCACCTTCAGAAGCCTGAAGGG
 CCCGGGAAGCACTGCCACAGAAGGGGTCTGGACTTGGAAAGCACCCCACTTTACTTTGTCCCTTCAC
 CCGAGAGCTGAGCCTGTGACAAAAGCTGGTCAGCCAATGCCTACACCCAGTGACCTAGAACCCCAATTC
 AACTGTCTACTCTACCTGCAGATCCTCCAGAGAGTCCAGTACCAGATCCTGCTCTGGAGACCCCGGTGAT
 TCCAACATCGTCAAGCCTTTTACGACCCGCTCAGTCCCTGGGGCTTGGCCCTCTCTTCCGTTCCGTC
 CGATCAAAGCTTGAAAGCTTTGCTGATATCTTCTTACACCTAACAAAACACCACAGCCTCCACCCCTT
 CACCTCCCATGAAATTAGAATTGAAGATTGCCATCTCGGAGGCTGAGCAGTCCAGGGCTACTGAGAAAAT
 TACATCTGTGACCCCAAGCCCTACTCCTGCCCTGATCTAGGGCCCTGACCCAGGTAGCTGGCCTCCTG
 AAGTCATCTCTGGGACGAAGCTACTCCTGCCCTGATCTAGGGCCCTGACCCAGGTAGCTGGCCTCCTG
 TCCCATCCCAGCAAGCCAGTCCAGGCCCGGAGACATACTGTGGTTGTGGGGAGATGGCCCGGACCC
 ACCACCTCCTCGACCCTGTCTCCGAAAGAGTCTTCCCTCTTGAGGAGTGGGAGTCTCTCCTTCTCTC
 ACTACATCTTGCTCAGCCAATGCCCTGCTTCTTCTTCTGCGAGCCGGCAGAACCAGGTTGGGTTCAA
 CGAAGGGGAAGGAGTTAAGAGCCTCAAAGACAAGGTGTTTTCTGATCCAGAGACCAAGACCATGGGGAA
 GGTCTTAGATTGAGAAATACGGAGGACACTGTCCGTCTCAACCAAACCTTACACCAATGGGGTGCCT
 CGACCAATCAGGTTGAATAAGAAGGAGTCACTTTGGAAGAAATTTATACAAATAAGAATACCAATCAC
 CCACAACCAGAAGGACCTTTGAGACCATCTTTGAGGAACCACGGGAGCGCAATGGAATCTGATTTTTAC
 CAGCTCTAGGAAGCTCCGAAGGGCAGTAGAATTTGGGACAGTAGCCTTCTCGATCCCGGCGACCATCA
 CGAGGGTCCGACCCGACGAAGCAGAACCTTACTCCCAACCTGGCACCAGCCAGGATGTGGGTCTC
 TACTGCAAGAAAGCTGAGGGAGCTAGATGCCTTGTCTCCTGGAGGAGGAGACAGATAAGGAACACCCCTG
 TCACCTTAGGAGCTCCAATTTGTCCATCCGTCTTTAGGTAGGGGAGAAATCTCTGAATCAATTGT
 ATTTTTTTTCTCTATATTTCTATAAAGTTTTCAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145589

Insert Size: 1839 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).

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: [BC055033](#), [AAH55033](#)

RefSeq Size: 2325 bp

RefSeq ORF: 1839 bp

Locus ID: 233895

UniProt ID: [Q7TPN9](#)

Cytogenetics: 7 F3

Gene Summary: Functions in tethering peripheral heterochromatin to the nuclear lamina during interphase, possibly through the interaction with heterochromatin protein CBX5/HP1 alpha (By similarity). Might play a role in reattaching heterochromatin to the nuclear lamina at mitotic exit (By similarity). Promotes myoblast differentiation during skeletal myogenesis, possibly by stimulating transcription factor MyoD activity via binding to CBX5/HP1 alpha (PubMed:25906157) (By similarity). Involved in the positive regulation of the PI3K-Akt-mTOR signaling pathway and in promoting cell proliferation, possibly via binding to GRB2 (By similarity).[UniProtKB/Swiss-Prot Function]