

Product datasheet for MC200258

Prr14 (BC006909) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prr14 (BC006909) Mouse Untagged Clone
Tag: Tag Free
Symbol: Prr14
Synonyms: MGC6888
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC006909
 AAAAAACAAAAAACAACAAAAACCCACAAAAGGGAAATGGAAGTATAAATCAATTTTTGTATAATCT
 GTTTTTGATATTCAGAAAGTGCAGATTTAACAAAGGTAGCCTTATCCTTTCTCTGTACAATGTCGATTAT
 AATTATGCAAACAACAAAAGTCCGATCAAAGCTTGAAAGCTTTGCTGATATCTTCTCACACCTAACAAA
 ACACCACAGCCTCCACCCCTTACCTCCCATGAAATTAGAATTGAAGATTGCCATCTCGGAGGCTGAGC
 AGTCCAGGGCTACTGAGAAAATTACATCTGTCAGCCCCAGGCCCTATCCGCCAGTGGCGGACTCAGTG
 CAATTCCTAGCACCTGTCTCTAAGTCACTCTGGGACGAAGCTACTCCTGCCCTGATCTAGGGCCCTT
 GACCCAGGTAGCTGGCCTCCTGTCCCATCCCAGCCAAGCCAGTCCAGGCCCGGAGACATACTGTGGGT
 GTGGGGAGATGGCCCGGACCCACCACCTCCTCGACCCTGTCTCCGAAAGAGGTCTTCCCTCTTGAGG
 AGTGGGAGTCTCCTTCTCTACTACATCTTGCTCAGCCAATGCCCTGCTTCTTCTGCGAGCCG
 GCAGAACCAGGTTGGGTTCAACGAAGGGGAAGGAGTTAAGAGCCTCAAAGACAAGGTGTTTTCTGATC
 CAGAGACCAAGACCATGGGGAAGTTTTCTAGATTCAGAAATACGGAGGACACCTGTCCGTCTCCAACCAA
 CCTTACACCAATGGGGCTGCCTCGACCAATCAGGTTGAATAAGAAGGAGTTCACTTTGAAGAAATTTAT
 ACAAATAAGAACTACCAATCACCCACAACCAGAAGGACCTTTGAGACCATCTTTGAGGAACCACGGGAGC
 GCAATGGAATCTGATTTTTACCAGCTCTAGGAAGCTCCGAAGGGCAGTAGAATTTGGGACAGTAGCCT
 TCCTCGATCCCGGCACCATCACGAGGGTCCGCACCCGACGAAGCAGGACCCCTTACTCCCAACCTGGCA
 CCCAGCCAGGATGTGGGGTCTCTACTGCAAGAAAGGCTGAGGGAGCTAGATGCCTTGCTCCTGGAGGAGG
 AGACAGATAAGGAACACCCTTGTACCTCTAGGAGCTCCAACATTTGTCCATCCGTCCTTATAGGTAGGG
 GAGAAATCTCTGAATCAATTGTATTTTTTTTTCTATATTTCTATAAAGTTTTCAATATAAAAAAAAAA AAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC006909
Insert Size: 1023 bp



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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:	<ol style="list-style-type: none">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:	<u>BC006909</u>
RefSeq Size:	1268 bp
RefSeq ORF:	1023 bp
Locus ID:	233895
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]