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Product datasheet for MR205081

Prr14 (BC006909) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prr14 (BC006909) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prr14
Synonyms:	MGC6888
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205081 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGATTATAATTATGCAAACAACAAAAGTCCGATCAAAGCTTGAAAGCTTTGCTGATATCTTCTTCA
CACCTAACAAAACACCACAGCCTCCACCCCCTTCACCTCCCATGAAATTAGAATTGAAGATTGCCATCTC
GGAGGCTGAGCAGTCCAGGGCTACTGAGAAAATTACATCTGTCAGCCCCAGGCCCCCTATCCGCCAGTGG
CGGACTCAGTGCAATTCCCTAGCACCTGTCTCTAAGTCATCTCTGGGACGAAGCTACTCCTGCCCTGATC
TAGGGCCCCCTGACCCAGGTAGCTGGCCTCCTGTCCCATCCCAGCCAAGCCAGTCCAGGCCCCGGAGACA
TACTGTGGGTTGTGGGGAGATGGCCCGGACCCCACCACCTCCTCGACCCTGTCTCCGGAAAGAGGTCTTC
CCTCTTGGAGGAGTGGGAGTCTCTCCTTCTCTCACTACATCTTGCTCAGCCAATGCCCCTGCTTCCTTCT
TCTGCGAGCCGGCAGAACCCAGGTTGGGTTCAACGAAGGGGAAGGAGTTAAGAGCCTCAAAAGACAAGGT
GTTTTCTGATCCAGAGACCAAGACCATGGGGAAGGTTTCTAGATTCAGAATACGGAGGACACCTGTCCGT
CTCCAACCAAACCTTACACCAATGGGGCTGCCTCGACCAATCAGGTTGAATAAGAAGGAGTTCACTTTGG
AAGAAATTTATACAAATAAGAACTACCAATCACCCACAACCAGAAGGACCTTTGAGACCATCTTTGAGGA
ACCACGGGAGCGCAATGGAACTCTGATTTTTACCAGCTCTAGGAAGCTCCGAAGGGCAGTAGAATTTCGG
GACAGTAGCCTTCCTCGATCCCGGCGACCATCACGAGGGGTCCGCACCGCAGCAAGCAGGACCCTTACTC
CCAACCTGGCACCCAGCCAGGATGTGGGGTCTCTACTGCAAGAAAGGCTGAGGGAGCTAGATGCCTTGCT
CCTGGAGGAGGAGACAGATAAGGAACACCCTTGTCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

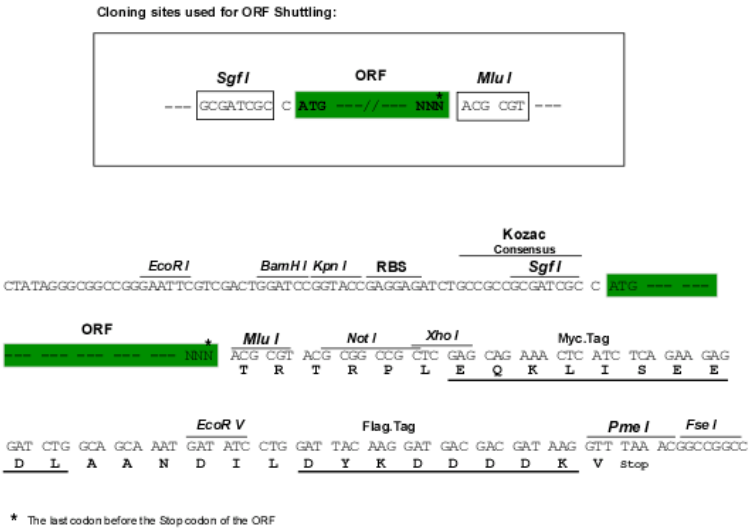
>MR205081 protein sequence
Red=Cloning site Green=Tags(s)

MSIIIMQTTKVRSKLESFADIFFTPNKTPQPPPPSPPMKLELKIAISEAEQSRATEKITSVSPRPPIRQW
RTQCNSLAPVSKSSLGRSYSCPDLGPPDPGSWPPVPSQPSQSRPRRHTVGCGEMARTPPPPRPCLRKEVF
PLGGVGVSPSLTTSCSANAPASFFCEPAEPRLGSTKGKELRASKDKVFSDPETKTMGKVSRFRIRRTPVR
LQPNLTPMGLPRPIRLNKKEFTLEEIYTNKNYQSPTTRRTFETIFEEPRERNGTLIFTSSRKLRRAVEFR
DSSLPRSRRPSRGVRTAASRTLTPNLAPSQDVGSLLQERLRELDALLLEEETDKEHPCHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC006909

ORF Size: 1020 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: BC006909

RefSeq Size: 1268 bp

RefSeq ORF: 1022 bp

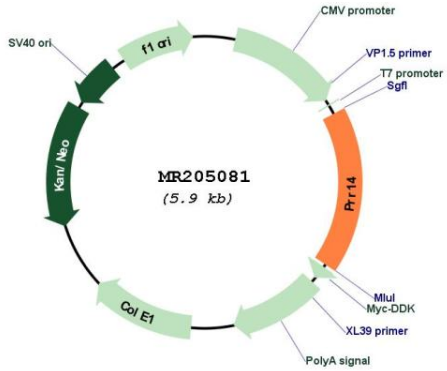
Locus ID: 233895

Cytogenetics: 7 F3

MW: 38.1 kDa

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]

Product images:



Circular map for MR205081