

Product datasheet for **MG205081**

Prr14 (BC006909) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prr14 (BC006909) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prr14
Synonyms:	MGC6888
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205081 representing BC006909 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCGATTATAATTATGCAAACAACAAAAGTCCGATCAAAGCTTGAAAGCTTTGCTGATATCTTCTTCA
CACCTAACAAAACACCACAGCCTCCACCCCTTACCTCCCATGAAATTAGAATTGAAGATTGCCATCTC
GGAGGCTGAGCAGTCCAGGGCTACTGAGAAAATTACATCTGTAGCCCCAGGCCCTATCCGCCAGTGG
CGGACTCAGTGAATCCCTAGCACCTGTCTTAAGTCATCTCTGGACGAAGCTACTCCTGCCCTGATC
TAGGGCCCTGACCCAGGTAGCTGGCCTCCTGTCCCATCCAGCCAAGCCAGTCCAGGCCCGGAGACA
TACTGTGGGTTGTGGGAGATGGCCCGACCCACCTCCTCGACCCTGTCTCCGAAAAGAGGTCTTC
CCTCTTGAGGAGTGGGAGTCTCTCCTTCTCTCACTACATCTTGCTCAGCCAATGCCCTGCTTCTTCT
TCTGCGAGCCGGCAGAACCAGGTTGGGTTCAACGAAGGGGAAGGAGTTAAGAGCCTCAAAGACAAGGT
GTTTTCTGATCCAGAGACCAAGACCATGGGGAGGTTTCTAGATTGAGAAACGGAGGACACCTGTCCGT
CTCCAACCAAACCTTACACCAATGGGGCTGCCTCGACCAATCAGGTTGAATAAGAAGGAGTTCACTTTGG
AAGAAATTTATACAAATAAGAACTACCAATCACCCACAACCAGAAGGACCTTTGAGACCATCTTTGAGGA
ACCACGGGAGCGCAATGGAAGTCTGATTTTTACCAGCTCTAGGAAGCTCCGAAGGCGAGTGAATTTCCG
GACAGTAGCCTTCTCGATCCCAGGACCATCACGAGGGTCCGCACCGCAGCAAGCAGGACCCCTTACTC
CCAACCTGGCACCCAGCAGGATGTGGGCTCTACTGCAAGAAAGGCTGAGGGAGCTAGATGCCTTGCT
CCTGGAGGAGGACAGATAAGGAACACCTTGTACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205081 representing BC006909
 Red=Cloning site Green=Tags(s)

MSIIMQTTKVRSKLESFADIFFTPNKTPQPPPPSPMKLELKIAISEAEQSRATEKITSVSPRPPIRQW
 RTQCNSLAPVSKSSLGRSYSCPDLGPPDPGSWPPVPSQPSQSRPRRHTVGCgemartpppprpclrkev
 PLGGVGVSPSLTSCSANAPASFFCEPAEPRLGSTKGKELRASKDKVSDPETKTMGKVSFRIRRTPV
 R LQPNLTPMGLPRPIRLNKKEFTLEEIYTNKNYQSPTRRTFETIFEEPRERNGLIFTSSRKLRRAVEFR
 DSSLPRSRPRSRGVRTAASRTLTPNLAPSQDVGSLQLERLRELDALLLEEETDKEHPCHL

TRTRPLE - GFP Tag - V

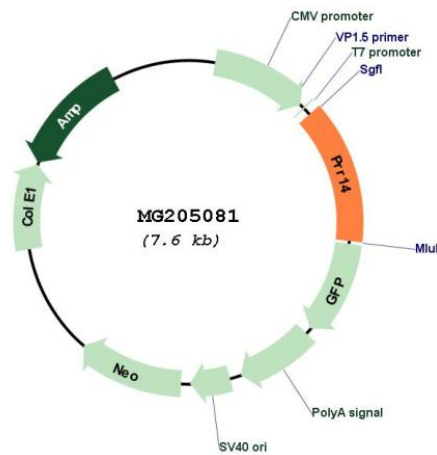
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC006909

ORF Size: 1022 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:	<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:	BC006909
RefSeq Size:	1268 bp
RefSeq ORF:	1022 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]