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Product datasheet for MG213804

Prdm15 (NM_144789) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm15 (NM_144789) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prdm15
Synonyms:	C21orf83; E130018M06Rik; ORF62; Zfp298
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG213804 representing NM_144789
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCCCACCTACTATCTGGGAAAAGGGTGGACAGGTGGGGGCCAGGTGGAGCCTGCGTGCTCCTGAGG
TATCAGCAATGGCTGAAGATGGTAGTGAGGAGATCATGTTTATCTGGTGTGAAGACTGCAGCCAGTACCA
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GATGACAAGACGTTCCAATGTGAGATGTGTTTCAGATTCTTCTCCACCAACAGCAACCTCTCTAAGCACA
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GCAGCAGCAGATGTACAGCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG213804 representing NM_144789
Red=Cloning site Green=Tags(s)

MCPPTIWEKGGQVGARWSLRAPEVSAMAEDGSEEIMFIWCEDCSQYHDSECPELGPVVMVKDSFVLSRAR
SSLPSNLEIRRLDDGAEGVFAVTQLVKRTQFGPFESRRVAKWEKESAFPLKVFQKDGHPVCFDTSNEDDC
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EPSVSVEPERGQWVCKVCSNTFLELQLLNEHLLGHLEQAKSLPAGGQQHEAASEKEPDAPRMEPPTAAES
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RHMRRKHPEVLAVRIDDLDHLPETTTIDASSIGIVQPALGLEQEELAEGKHGKAAKRSHKRKQKPEEEAG
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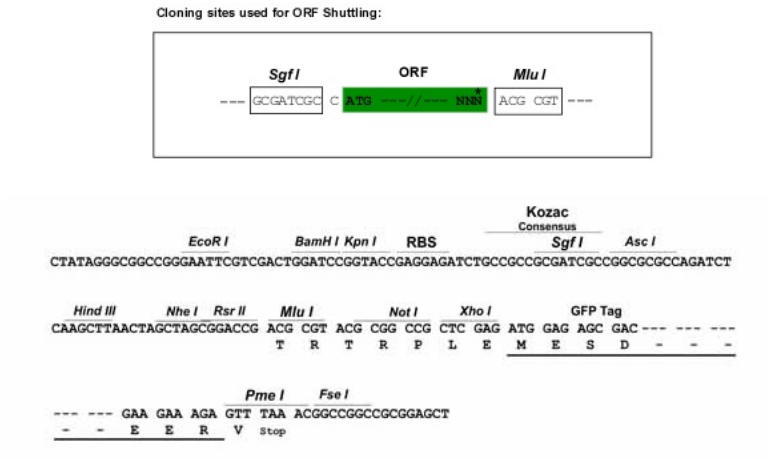
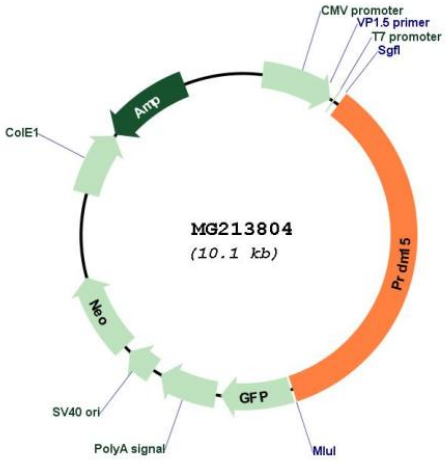
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_144789
ORF Size:	3522 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:	NM_144789.2, NP_659038.2
RefSeq Size:	6346 bp
RefSeq ORF:	3525 bp
Locus ID:	114604
UniProt ID:	E9Q8T2
Cytogenetics:	16 C4

Gene Summary: Sequence-specific DNA-binding transcriptional regulator. Plays a role as a molecular node in a transcriptional network regulating embryonic development and cell fate decision. Stimulates the expression of upstream key transcriptional activators and repressors of the Wnt/beta-catenin and MAPK/ERK pathways, respectively, that are essential for naive pluripotency and self-renewal maintenance of embryonic stem cells (ESCs). Specifically promotes SPRY1 and RSPO1 transcription activation through recognition and direct binding of a specific DNA sequence in their promoter regions. Plays also a role in induced pluripotent stem cells (iPSCs) reprogramming. Involved in early embryo development.[UniProtKB/Swiss-Prot Function]