

## Product datasheet for **RG219769**

### PRDM15 (NM\_001040424) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PRDM15 (NM\_001040424) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PRDM15  
**Synonyms:** C21orf83; PFM15; ZNF298  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG219769 representing NM\_001040424  
 Red=Cloning site Blue=ORF Green=Tags(s)

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ATGCCCGCCCGCCCGCCCGGCTTCCGGTGCTGCGCAGTTTCCGGAGCGGATCGCAACCCGGAGTCCGG  
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GGCGGAGCAGCAGCAGCAGATGTACAGCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219769 representing NM\_001040424  
 Red=Cloning site Green=Tags(s)

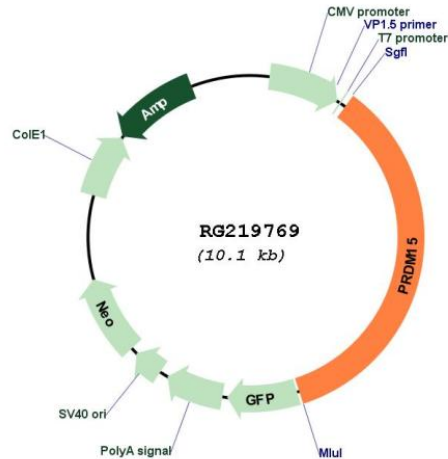
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 LVNSITPLGSQLSDQHPLTWRVAPQTDVLPSPQPAPPQAAQPQVQAEQQQQMYSY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI  
 Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001040424

ORF Size: 3534 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\\_001040424.2](#)

RefSeq Size: 6654 bp

RefSeq ORF: 3426 bp

Locus ID: 63977

UniProt ID: [P57071](#)

Cytogenetics: 21q22.3

**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. Involved in early embryo development (By similarity). Plays also a role in induced pluripotent stem cells (iPSCs) reprogramming (PubMed:28740264).[UniProtKB/Swiss-Prot Function]