

Product datasheet for **MG216533**

Dpy30 (NM_001146222) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dpy30 (NM_001146222) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dpy30
Synonyms: 2810410M20Rik; C87842
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216533 representing NM_001146222
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCGGAGCAGATGCTGGAGGGACAGACACAGTTGCAGAAAACCTCACTCTGAGTACGGACTCA
CAGACAGCGTTGAGAGAATAGTCGAAAATGAGAAGATTAATGCAGAAAAGTCATCGAAACAGAAGGTGGA
TCTACAGTCCTTGCCACCCGTCCTACCTGGACCAGACAGTTGTGCCTATCTTATTACAGGGACTTGCT
GTGCTTGCCAAGGAAAGACCACCAAATCCCATCGAGTTCCTAGCATCTTATCTTTAAAAACAAGGCCG
AGTTTGAAGATCGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216533 representing NM_001146222
Red=Cloning site Green=Tags(s)
MESEQMLEGQTQVAENPHSEYGLTDSVERIVENEKINAEEKSSKQKVDLQSLPTRYLDQTVPILLQGLA
VLAKERPPNPIEFILASYLLKNAQFEDRN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

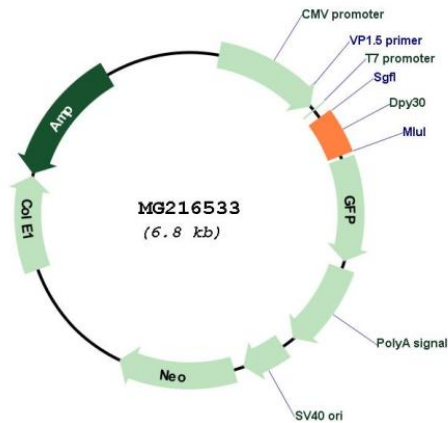


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001146222

ORF Size: 297 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:	<u>NM_001146222.1</u> , <u>NP_001139694.1</u>
RefSeq Size:	790 bp
RefSeq ORF:	300 bp
Locus ID:	66310
UniProt ID:	<u>Q99LTO</u>
Cytogenetics:	17 E2
Gene Summary:	As part of the MLL1/MLL complex, involved in the methylation of histone H3 at 'Lys-4', particularly trimethylation. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. May play some role in histone H3 acetylation. In embryonic stem (ES) cells, plays a crucial role in the differentiation potential, particularly along the neural lineage, regulating gene induction and histone H3 'Lys-4' methylation at key developmental loci, including that mediated by retinoic acid. Does not affect ES cell self-renewal. May also play an indirect or direct role in endosomal transport.[UniProtKB/Swiss-Prot Function]