

## Product datasheet for **MG218923**

### Dpy30 (NM\_024428) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dpy30 (NM\_024428) 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:** >MG218923 representing NM\_024428  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCGGAGCAGATGCTGGAGGGACAGACACAGTTGCAGAAAACCCTCACTCTGAGTACGGACTCA  
CAGACAGCGTTGAGAGAATAGTCGAAAATGAGAAGATTAATGCAGAAAAGTCATCGAAACAGAAGGTGGA  
TCTACAGTCCTTGCCACCCGTCCTACCTGGACCAGACAGTTGTGCCTATCTTATTACAGGGACTTGCT  
GTGCTTGCCAAGGAAAGACCACCAAATCCCATCGAGTTCCTAGCATCTTATCTTTAAAAACAAGGCGC  
AGTTTGAAGATCGAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG218923 representing NM\_024428  
Red=Cloning site Green=Tags(s)  
MESEQMLEGQTQVAENPHSEYGLTDSVERIVENEKINAEEKSSKQKVDLQSLPTRAYLDQTVVPILLQGLA  
VLAKERPPNPIEFLLASYLLKNAQFEDRN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024428.1</a>
<b>RefSeq Size:</b>	799 bp
<b>RefSeq ORF:</b>	300 bp
<b>Locus ID:</b>	66310
<b>UniProt ID:</b>	<a href="#">Q99LTO</a>
<b>Cytogenetics:</b>	17 E2
<b>Gene Summary:</b>	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]