

Product datasheet for **RR215798**

Dpy30 (NM_001170545) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dpy30 (NM_001170545) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dpy30
Synonyms: Aip1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215798 representing NM_001170545
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCAGAGCAGATGCTGGAGGGACAGACACAGGTTGCAGAAAACCTCACTCTGAGTACGGGCTCA
CAGACAGCGTTGAGAGAATAGTTGAAAATGAGAAGATTAATGCAGAAAAGTCATCAAACAGAAGGTGGA
TCTACAGTCCTTGCCACCCGCTACCTGGACCAGACAGTTGTGCCTATCTTATTACAGGGACTTGCT
GTGCTCGCAAAGGAAAGACCACCAAATCCCATCGAGTTTCTAGCATCTTATCTTTAAAAAATAAGGCAC
AGTTTGAAGATCGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215798 representing NM_001170545
Red=Cloning site Green=Tags(s)

MESEQMLEGQTQVAENPHSEYGLTDSVERIVENEKINAEEKSSKQKVDLQSLPTRYLDQTVVPILLQGLA
VLAKERPPNPIEFILASYLLKNAQFEDRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

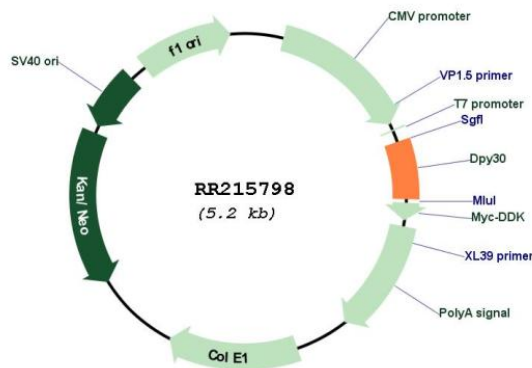


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001170545

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_001170545.1</u> , <u>NP_001164016.1</u>
RefSeq Size:	680 bp
RefSeq ORF:	300 bp
Locus ID:	286897
Cytogenetics:	6q13
MW:	11.2 kDa
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 cells, may play a crucial role in retinoic acid-induced differentiation along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci. May also play an indirect or direct role in endosomal transport (By similarity). [UniProtKB/Swiss-Prot Function]