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Product datasheet for MG225644

Phc2 (NM_001195083) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phc2 (NM_001195083) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phc2
Synonyms:	A3galt2; AA415044; D4Ertd810e; D130050K19Rik; Edr2; Mph2; p36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG225644 representing NM_001195083
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAATGAGCTGCCAGTCCCCCACACATCCAACCGGGCCAGTGTCACCACCAACACCAGTGGGACCA
ATAGTAGCAGTGGCTGCATCAGCAGCAGCGGCGGTGGTGGTGGCAGCGGTGGCCGCCCCACTGCACCCCA
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GGTGGCCAACAGACAAGGAAGTACTCCCGGTAGCAGTGTGTCCTCACAGGCTCCTGCCCAGTCTTCTTCA
CTCAATCTGGCAGCCTCCCCGGCAGCAGCCCAGCTTATCAACCGGGCACAGAGTGTCAATTCAGCCGCAG
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CTTGCTGCTGCTCAAGGAGGACCACCTAATGAGCGCCATGAACATCAAGCTAGGGCCCGCCCTGAAGATC
TACGCACGCATCAGCATGCTCAAGGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225644 representing NM_001195083
Red=Cloning site Green=Tags(s)

MENELPVPHTSNRASVTTNTSGTNSSSGCISSSGGGGGSGGRPTAPQISVYSGIPDRQTVQVIQQALHRQ
PSTAAQYLQQMYAAQQQHLMLQTAALQQQHLSSAQLQSLAAVQQASLVANRQGSTPGSSVSSQAPAQSSS
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QQPQPPRPAPQVQSQPQLASVSPSLALQSSPEDHALPLGSVTQALPLQCSTTHVHKPGNSQQCHLPTLDT
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AIPGGLPGPKSPNIQQCPAHETGQGIVHALTDLSSPGMTSGNGNSASSIAGTAPQNGENKPPQAIVKPQI
LTHVIEGFVIQEGAEPFPVGRSSLLVGNLKKKYAQGFLPEKPPQQDHTTTTDSEMEEPYLQESKEEGTPL
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LVGVGHHFLPSEPTKWNVEDVYEFIRSLPGCQEIAEEFRAQEIDGQALLLLKEDHLMSAMNIKLGPALKI
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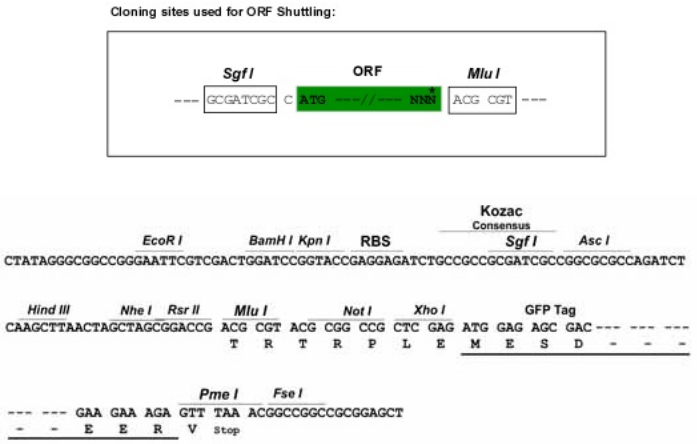
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001195083
ORF Size:	969 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_001195083.1, NP_001182012.1

RefSeq Size: 2549 bp

RefSeq ORF: 972 bp

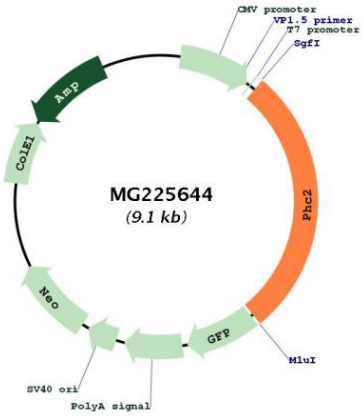
Locus ID: 54383

UniProt ID: Q9QWH1

Cytogenetics: 4 62.12 cM

Gene Summary: Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225644