

Product datasheet for **MG205874**

Ring1 (NM_009066) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ring1 (NM_009066) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Ring1
 Synonyms: Ring1A
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG205874 representing NM_009066
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGGTACAGAGATTGCGGTTTCGCCTCGGTCACTGCATTCTGAGCTCATGTGTCCCATCTGCCTGG
 ACATGCTGAAGAACAACAATGACCACCAAGGAGTGCCTGCATAGGCTCTGCTCGGACTGCATCGTACC
 CCTGCGGAGCGGGAACAAGGAGTGCCCTACCTGCCGAAAAAGCTGGTATCCAAGCGTCCCTACGGCCG
 GACCCCAACTTCGACGCCCTGATCTCCAAAATCTACCCTAGCCGGGAGGAATATGAGGCCATCAGGACC
 GGGTGCTCATCCGCCTCAGCCGCCTGCACAACCAGCAGGCGCTGAGCTCCAGTATCGAGGAAGGGCTCCG
 GATGCAGGCCATGCACAGGGCCAGCGTGTGAGGCGGCCGATGCCTGGATCTGATCAGACCGCCACAATG
 AGTGGGGGGAAGGAGAACCTGGGGAGGGAAGGGGATGGAGAGGATGTAAGCTCTGACTCCGCCCCAG
 ACTCTGCTCCAGGCCCTGCTCCCAAGCGACCCCGCGGAGCGGGTGCAGGGGCCAGAGTGTAGGGACAGG
 GGGTGGGGCTGCTGGTGGGGCTTGCGGGGTGCCTGTTCTGAAGACTCTGGTACCGGGGCGGCACCCTG
 GGAGGGGAACCTGGGGCCCCAAGCCCTCCTGGGGCCCCAGCCCTCCAGAGCCCGGTGGAGAGATTG
 AGCTTGTGTTCCGGCCCCATCCCTGCTTGTGGAGAAAGGAGAGTACTGCCAGACTCGGTACGTGAAGAC
 TACTGGGAATGCCACAGTGGATCATCTCTCCAAGTACCTGGCCCTGCGCATTGCCCTGGAGAGGAGGCAG
 CAGCAGGAAACCGCAGAGCCCGGAGGGCCTGGTGGGGTGCTTCGGACACAGGCGGACCTGATGGGGTG
 GTGGGGAGAGAGCGTTGCCGGAGGAGGCGAAGTCTGAGGAGCCTGCGCTCCCGAGCCTGGAAGGTGT
 CAGCGAAAAGCAGTACACCATCTACATCGCTCCTGGGGCGGAGCGTTCCAGACGCTGAATGGATCACTG
 ACCTTGGAGCTTGTAAACGAGAAGTTCTGGAAGGTGTCCAGGCCCTTAGAGCTCTGCTATGCCCCACGA
 AGGACCCAAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205874 representing NM_009066
 Red=Cloning site Green=Tags(s)

MDGTEIAVSPRSLHSELMCPICLDMLKNTMTTKECLHRLCSDCIVTALRSGNKECPTCRKKLVSKRSLRP
 DPNFDALISKIYPSREEYEAHQDRVLIRLSRLHNQQALSSIEEGLRMQAMHRAQRVRRPMPGSDQTATM
 SGGEGEPGEGEGDGEDVSSDSAPDSAPGPAPKRPRGAGAGASSVGTGGGAAGGACGGAGSEDSGDRGGTL
 GGGTGLGPPSPPGAPSPPEPGGEIELVFRPHPLLVEKGEYCQTRYVKTTGNATVDHL SKYLALRIALERRQ
 QQETAEPGGPGGASDTGGPDGGGGERGVAGGGEGPEEPALPSLEGVSEKQYTIYIAPGGGAFTTLNGSL
 TLELVNEKFWKYSRPLELCYAPTKDPK

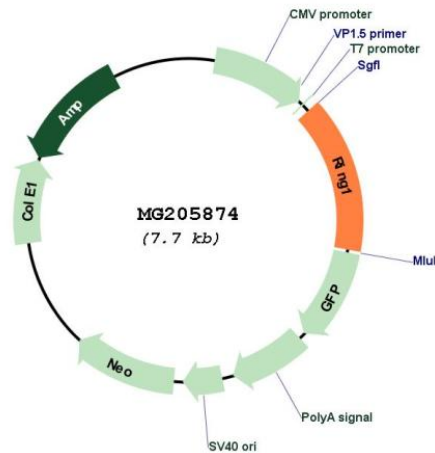
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009066

ORF Size:	1131 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:	NM_009066.2 , NP_033092.2
RefSeq Size:	1762 bp
RefSeq ORF:	1221 bp
Locus ID:	19763
UniProt ID:	O35730
Cytogenetics:	17 B1
Gene Summary:	Constitutes one of the E3 ubiquitin-protein ligases that mediate monoubiquitination of 'Lys-119' of histone H2A, thereby playing a central role in histone code and gene regulation. H2A 'Lys-119' ubiquitination gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. Essential 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, rendering chromatin heritably changed in its expressibility. Compared to RNF2/RING2, it does not have the main E3 ubiquitin ligase activity on histone H2A, and it may rather act as a modulator of RNF2/RING2 activity (By similarity).[UniProtKB/Swiss-Prot Function]