Product datasheet for MG221150

H4c1 (NM_178192) Mouse Tagged ORF Clone

Product data:

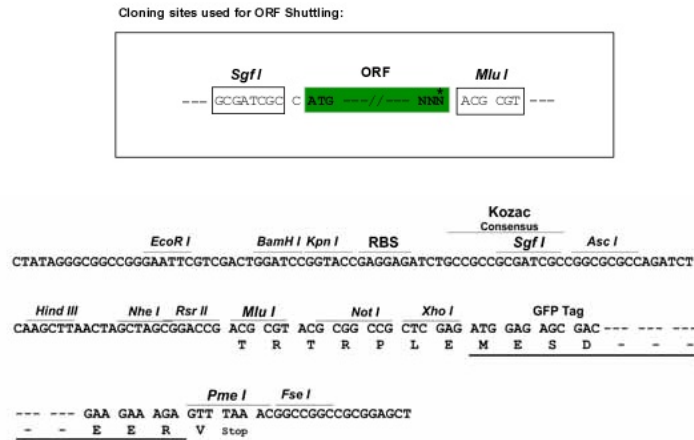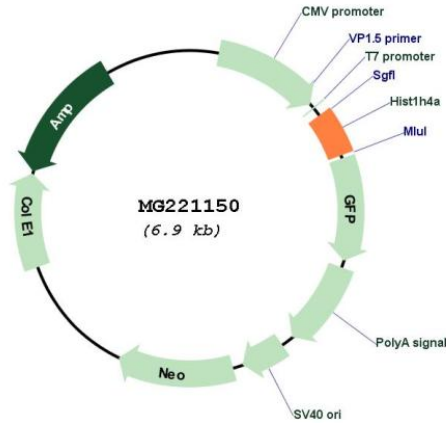|	
Product Type:	Expression Plasmids
Product Name:	H4c1 (NM_178192) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H4c1
Synonyms:	H4c2; H4c3; H4c4; H4c6; H4c8; H4c9; H4c11; H4c12; H4c14; H4f16; Hist1; Hist1h4a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221150 representing NM_178192 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGGGTCGCGGCAAGGGAGGAAAAGGCCTGGGCAAAGGCGGCGCTAAGCGCCACCGTAAGGTTCTCC GCGATAACATCCAGGGCATCACCAAGCCCGCCATCCGCCGCCTGGCCCGGCGCGGGGGAGTGAAGCGCAT CTCCGGCCTCATCTACGAGGAGACCCGCGGTGTGCTGAAGGTGTTCCTGGAGAACGTGATCCGCGACGCC GTCACCTACACGGAGCACGCCAAGCGCAAGACCGTCACCGCCATGGACGTGGTCTACGCGCTCAAGCGCC AGGGCCGCACCCTCTACGGATTCGGCGGC ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA
Protein Sequence:	>MG221150 representing NM_178192 Red=Cloning site Green=Tags(s) MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDA VTYTEHAKRKTVTAMDVVYALKRQGRTLYGFGG TRTRPLE – GFP Tag – V
Restriction Sites:	SgfI-MluI

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Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf I	ORF	Mlu I
GCGATCGC C	ATG ----//---- NNN	ACG CGT

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                                                        Kozac
                                                      Consensus
          EcoR I          BamH I Kpn I   RBS                 Sgf I        Asc I
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGCGCCAGATCT

   Hind III      Nhe I  Rsr II  Mlu I           Not I    Xho I           GFP Tag
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
                          T   R   T   R   P   L   E   M   E   S   D   -   -   -

                    Pme I      Fse I
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
 -   -   E   E   R   V  Stop
```

Plasmid Map:

ACCN:	NM_178192
ORF Size:	309 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_178192.2, NP_835499.1
RefSeq Size:	312 bp
RefSeq ORF:	312 bp
Locus ID:	326619
UniProt ID:	P62806
Cytogenetics:	13 A3.1
Gene Summary:	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. [provided by RefSeq, Aug 2015]