

Product datasheet for **RG212023**

HIT2 (HIFNT) (NM_181788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HIT2
Synonyms:	H1.7; HIFNT; HIT2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212023 representing NM_181788
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAACAGGCCTTGACTGGTGAGGCCAAAGCCGGTGGCCCCGAGAGCGGGAGTGGGGCCATGGCTG
AGGCGCCTGGGCCAGTGGCGAATCCCGAGGACACTCAGCCACTCAGCTGCCAGCGGAAAAAAGTGTGG
GGGACCATCGAGGGGCTGCTCAAGCTCCGTGCTCAGAGTGTCCAGTTGGTGCTCCAGGCCATCTCCACT
CACAAAGGGCTGACTCTGGCAGCTCTAAGAAGGAGCTCCGAAACGCCGGCTACGAAGTGCGCAGGAAGA
GCGGCCGCCACGAAGCGCCAGGGGGCAGGCCAAGGCCACGCTCCTCCGGGTCAGCGGCAGCGACGCCGC
CGGCTACTTCAGGGTCTGGAAGTTCCCAAGCCAGGAGAAAGCCGGGACGCGCAGGCAAGAGGAGGGC
ACGCGCGCTCCCTGGAGGACCCAGCCGCGCCCGGAGCTCCCGAGGCGCCGCGAGCCCTTCGCAAGG
CGGCCAGGAAGGCCAGAGAAGTGTGGAGACGGAACGCGAGGGCGAAAGCCAAGGCCAATGCCAGGGCGAG
GAGGACCAGGAGGGCAAGGCCGAGAGCCAAGGAGCCCGCTGTGCCAGAGCCAAGGAGGAAGCGGGAGCG
ACAGCGGCAGACGAGGGGCGAGGACAGGCCGTGAAGGAAGACACCGCCGAGGTGAGGGAAGGACAAGA
GGCGAAGCTCCAAGCCAGGGAAGAGAAGCAGGAGCCCAAGAAGCCCGCACAGCGGACCATCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG212023 representing NM_181788

Red=Cloning site Green=Tags(s)

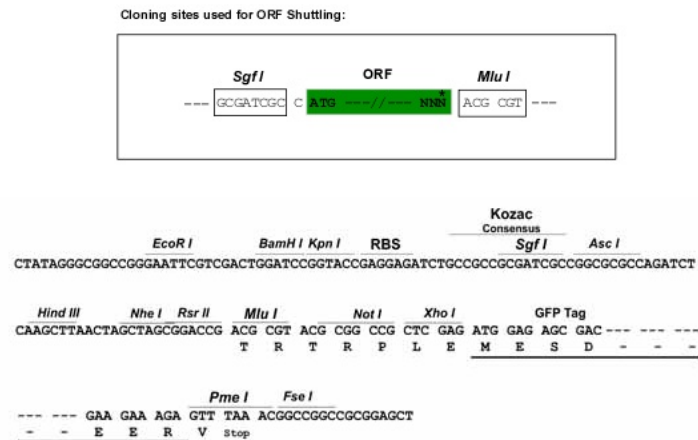
MEQALTGEAQSRWPRRGSGAMAEAPGPSGESRGHSATQLPAEKTVGGPSRGCSVVLRVSQLVLQAIST
HKGLTLAALKKELRNAGYEVRRKSGRHEAPRGQAKATLLRVSGSDAAGYFRVWVVKPRRKPGRRARQEEG
TRAPWRTPAAPRSSRRRQPLRKAARKAREVWRRNARAKANARARRRRARPRAKEPPCARAKEEAGA
TAADEGRGQAVKEDTTPRSGDKRRSSKPREEKQEPKKPAQRTIQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_181788

ORF Size:

765 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:

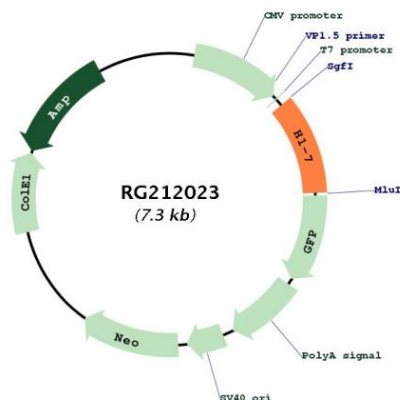
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_181788.1, NP_861453.1</u>
RefSeq Size:	1300 bp
RefSeq ORF:	768 bp
Locus ID:	341567
UniProt ID:	<u>Q75WM6</u>
Cytogenetics:	12q13.11
Gene Summary:	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-independent histone that is a member of the histone H1 family. The related mouse gene encodes a testis specific protein that is required for spermatogenesis and male fertility. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RG212023