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Product datasheet for MG215279

Hrc (NM_010473) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hrc (NM_010473) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hrc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG215279 representing NM_010473, codon optimized.
Due to the complexity of NM_010473, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGTTCCAGGGACCATGGTTGCACACATGCCTGCTTTGGGCCACCGTAGCCATCTTGCTGGTGCCCC
CTGTGGTAACCCAGGAACTCAGGGGGGCAGGACTTGGGCTCGGAAATTGGAATAATAATGCAGGCATCCC
TGGGTCTAGCGAAGACCTGTCTACGGAATTCGGCCACCACATTCATCGCGGATACCAAGGGGAAAAGGAC
CGAGGGCATAGGGAAGAAGGGGAGGACTTCTCCAGGGAGTACGGGCACAGGGTCCAGGATCACCGATACC
CTGGTCGAGAAGTCGGCGAAGAAAATGTCTCAGAGGAGGTGTTCCGCGGACATGTGCGCCAGCTCCACGG
TCATAGAGAACACGACAATGAAGATCTGGGCGACTCCGCTGAAAATCACCTCCCCCGCCAGCGCAGCCAT
TCCCACGAGGATGAGGATGGTATCGTCTCCTCCGAGTATCACCGACATGTCCCCAGGCATGCCCACCATG
GACATGGAGAGGAAGATGACGATGATGATGGTGGCGAGGAGGAGGAGCGCGTCGACGTGATGGAGGACTC
TGACGATAACGAGCACCAGGTCCACGGTCACCAAAGCCACTCCAAGGAGAGGGATGAGCTCCACCATGCT
CATTCCCATAGACACCAAGGTCACTCAGACGACGACGATGATGATGGCGTCTCTACCGAGCACGGACATC
AGGCTCATAGGTATCAAGACCACGAGGAGGAGGATGACGGAGATTCCGACGAAGATTCTCACACCCACAG
AGTGCAGGGGCGAGAGGACGAGAACGACGATGAGGACGGCGATTCCGGCGAGTACCGACACCACACTCAG
GATCACCAGGGCCACAATGAAGAGCAGGATGACGATGATGACGATGACGACGACGATGAGGATAAGGAGG
ATTCTACAGAGCACAGACATCAAACTCAGGGACATCGCAAGGAAGAGGACGAAGATGAGTCAGACGAGGA
CGACCATCATGTTAGCAGACACGGAAGACAGGGCTATGAGGAAGAAGAGGATGACGATGACGATGACGGT
GACGACGACTCCACTGAGCACGTCCATCAGGCCCACCGCCATAGAGATCATGAGCATAAAGATGACGAAG
ATGACAGTGAGGAGGACTACCACCATGTGCCTTCTCACGGAAGACAGAGCCATCAAAACGAGGAGGAAGA
AGACGAAGCCGTGAGCACCGAGCATTGGCACCAATCCCCTCGCCATGCTCATCACGATCTCGGTCGAGAG
TCTGAAGAGGAGGTAGCCGTGAAGTACAGCCACCACGTCGCATCTCACAGGCCACAGGGACACAATGCCG
ATCGCGAGGAAGATTCTTTGGAGGAGCACATGAACGAAGTTCCAGGTCACCACCATCACCGGGCCTCCAG
GGGGGATGACGAAGACATCTCCACAGAGTTCGGCCACAAGGCCCCCTCTCATCGCCTCCAGGACCAGGAC
GAGCGGGCCCGCCAAGGCCATCGAGAGCCCGTCCAGGGGGAAATCGCTCACCAGCCTCTTCAGCCTACCG
GACCCAGCTCCCGGGAGAGCAGGAAGGAGGGTGATCACAGCAGCCAGGAGGGCGACGAGGACCCTGAGCA
AAGGCAGGCCCATTCAGAGGAGGAGAAAGAGGAGGAGGAGGAGGAGGAAGAGGAGGAGGAGGAAAAG
GAAGGCGGCCACAGCCTTCCGATGAGTCAGGAGGACGACGAGGAAGAAGAAAAGGACGAAAAGGAGTCCA
AAGTTGACCGAGCCGCCGTGTCCGCCCCCCTGTCCCATCATCGAAAACAGGGGGAGGAGGAAGAAGAGGA
GGAAGAAGAGGAGGAAGAGGAAATTCTGGAAGAAAACCTCCTGCCATTCACAATCATACCGAACCCCCTG
GCAGGGAGAGAGGTGGCGAGAGAAGGCAGTTCTGAGGAGGAGTCCAGAGAAGTTACAGGCCAGCAAGACG
CGCAAGAGTACGAGAATTACCAGCCAGGCTCCCTGTGCGGCTATTGTAGTTTTTGTAACCGATGTACTGA
GTGCGAAAGCTGCCACTGCGACGAGGAGAACATGGGAGAGCATTGCGACCAGTGCCAACATTGTCAGTTT
TGCTACCTCTGTCCCCTGGTATGTGATACTCTCTGCACTCCGGGCTCATATGTGGATTATTTTTCCAGTA
GTTTGTATCAAGCACTGGCAGATATGCTTGAGACTCCAGAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

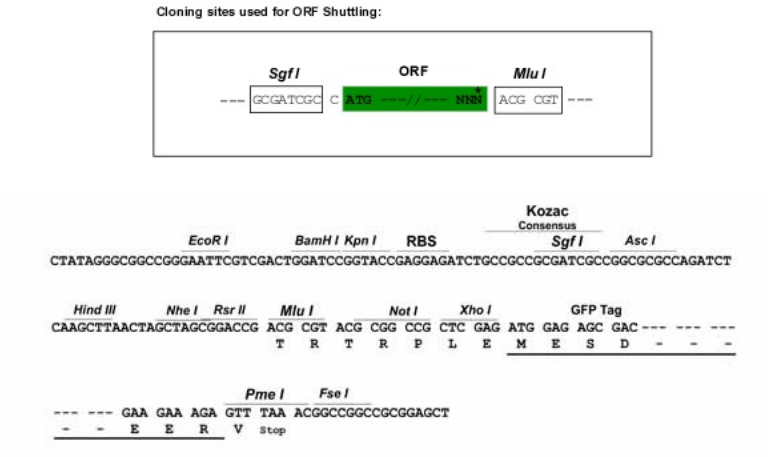
>MG215279 representing NM_010473
Red=Cloning site Green=Tags(s)

MGFQGPWLHTCLLWATVAILLVPPVVTQELRGAGLGLGNWNNNAGIPGSSEDLSTEFGHHIHRGYQGEKD
RGHREEGEDFSREYGHRVQDHRYPGREVGEENVSEEVFRGHVRQLHGHREHDNEDLGDSAENHLPRQRSH
SHEDEDGIVSSEYHRHVPRHAHHGHGEEDDDDDGGEEEERVDVMEDSDDNEHQVHGHQSHSKERDELHHA
HSHRHQGHSDDDDDDGVSTEHGHQAHRYQDHEEEDDGDSDEDSHTHRVQGREDENDDEDGDSGEYRHHTQ
DHQGHNEEQDDDDDDDDDDEDKEDSTEHRHQTQGHRKEEDEDESDEDDHHVSRHGRQGYEEEEDDDDDDG
DDDSTEHVHQAHRHRDHEHKDDEDDSEEDYHHVPSHGRQSHQNEEEEDEAVSTEHWHQSPRHAHHDLGRE
SEEEVAVKYSHHVASHRPQGHNADREEDSLEEHMNEVPGHHHHRASRGDDEDISTEFGHKAPSHRLQDQD
ERARQGHREPVQGEIAHQPLQPTGPSSRESRKEGDHSSQEGDEDPEQRQAHSEEEKEEEEEEEEEEEEK
EGGHSLPMSQEDDEEEEKDEKESKVDRAAVSAPLSHHRKQGEEEEEEEEEEEEEILEENLLPFTIIPNPL
AGREVAREGSSEEESREVTGQQDAQEYENYQPGSLCGYCSFCNRCTECESCHCDEENMGEHCDQCQHCQF
CYLCPLVCDTLCTPGSYVDYFSSSLYQALADMLETPEP

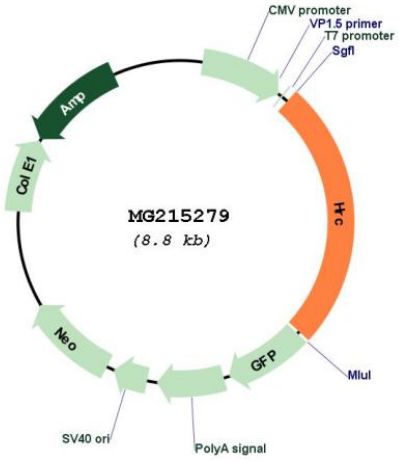
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_010473
ORF Size:	2214 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_010473.2, NP_034603.2
RefSeq Size:	2443 bp
RefSeq ORF:	2217 bp
Locus ID:	15464
Cytogenetics:	7 29.26 cM