

Product datasheet for **MG201959**

Hikeshi (NM_026304) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hikeshi (NM_026304) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hikeshi
Synonyms: 0610007P06Rik; 1110002N09Rik; l(7)6Rn; l7Rn6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201959 representing NM_026304
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTGGCTGCCTGGTGGCGGGGAGGCTGGTGC AAACAGCTGCACAGCAAGTGGCAGAGGATAAAATTTG
TTTTTGACTTGCCTGATTATGAAAATATCAACCATGTTGTGGTTTTTATGCTGGGAACAATCCCATTTC
TGAGGGCATGGGAGGATCTGTCTACTTTTCCTATCCTGATTCAAATGGGGTGCCAGTGTGGCAGCTCCTA
GGATTTGTCACGAATGGAAAGCCAAGTGCCATCTTCAAATATCAGGTCTTAAATCTGGGAAGGAAGCC
AGCACCCATTTGGAGCCATGAATATTGTGCGAACCCCATCTGTTGCCAGATTGGCATCTCGGTGGAATT
GTTGGACAGTCTGGCTCAGCAGACTCCTGTAGGCAGTGCTGCCGTGTCCCGTTGACTCCTTTACGCAG
TTCACACAGAAGATGTTGGACAATTCTACAATTTTGCTTCATCATTTGCTCTCTCAGGCCCAGATGA
CACAAATCCATCAGAAATGTTTCATCCCAGCAAATGTGGTTCTGAAATGGTATGAAAACCTTCAAAGACG
ACTAGCACAGAACCCCTCTTTTGGAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201959 representing NM_026304
Red=Cloning site Green=Tags(s)

MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYENINHVVVFMLGTIPFPEGMGGSVYFSYPDSNGVPVWQLL
GFVTNGKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGISVELLDLSLAQQTTPVGSAAVSSVDSFTQ
FTQKMLDNFYNFASSFALSQAQMTPNPSEMFIPANVVLKWYENFQRRLAQNPLFWKT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



Plasmid Map:



ACCN: NM_026304

ORF Size: 1082 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_026304.3](#), [NP_080580.1](#)

RefSeq Size: 1046 bp

RefSeq ORF: 594 bp

Locus ID: 67669

UniProt ID: [Q9DD02](#)

Cytogenetics: 7 50.4 cM

Gene Summary: Acts as a specific nuclear import carrier for HSP70 proteins following heat-shock stress: acts by mediating the nucleoporin-dependent translocation of ATP-bound HSP70 proteins into the nucleus. HSP70 proteins import is required to protect cells from heat shock damages. Does not translocate ADP-bound HSP70 proteins into the nucleus (By similarity). May also be indirectly required for organization and/or function of the secretory apparatus in Clara cells in lung.[UniProtKB/Swiss-Prot Function]