

Product datasheet for **MG211131**

Hip1 (NM_146001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hip1 (NM_146001) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hip1
Synonyms:	2610109B09Rik; A930014B11Rik; E130315I21Rik; mKIAA4113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211131 representing NM_146001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCGAATGGCCAGCTCCATGAAGCAGGTATCCAACCCGCTGCCAAAGTGTGAGCCGCCGGAG
TTGGTGTGGGATGGAGGCTGCGGAGCGGAGAGCTTCGAGCGGACTCAGACGGTCAGCGTCAATAAGGC
CATTAAATACGCAGGAAGTGGCCGTGAAAGAGAACATGCCAGGACGTGTATTCTGGGCACCCACCATGAG
AAAGGAGCGCAGACCTTTTGGTCTGTGGTCAACCGACTGCCTCTCCAGCAACGCCATGCTGTGCTGGA
AGTTTTGTACCGTGTCCACAACTTCTTCGAGATGGACATCCGAACGTGCTGAAAGACTCTCTGAGATA
CAAAAATGAGTTAAGCGACATGAGCAGGATGTGGGGCCACTGAGCGAGGGGTATGGACAGCTTTGCAGC
ATCTACCTCAAATGCTGAGAACAAGGATGGAGTACCACACCAAAAATCCAGGTTCCCGGGCAACCTCC
AGATGAGTGACCGACAGCTGGATGAGGCCGGAGAAAGTACGTTAAACAATTTTTTCAGCTCACAGTGGA
GATGTTTGATTACCTGGAGTGTGAAGTGAACCTCTTCAGACTGTGTTCAACTCCTTGGACATGTCCCGT
TCGGTGTCCGTGACCACGGCTGGCCAGTGCCGCTCGCACCCTCATCCAGGTATCCTGGACTGCAGTC
ACCTCTATGACTACACTGTCAAGCTGCTCTTCAAGCTCCACTCCTGTCTTCCAGCTGACACCCTGCAGGG
CCACCGAGACCGCTTTCATGGAGCAGTTCACAAAGTTGAAAGATCTGTTTCAGCGCTCCAGCAACCTACAG
TACTTCAAGCGGCTCATTAGATCCCCAGCTGCCGAGAAATCCACCAACTTCTACGAGCTCGGCC
TGTGAGGACACATCAGTCTGTGGTGGTATCCCGGAGAGGTGTCATCCCAGACAGTGAGCCTGTCTT
GGAGAAGGATGACCTCATGGACATGGACGCTCCAGCAGACTTTGTTTGACAACAAGTTTGATGACGTC
TTTGGCAGCTCATTGAGCAGCGACCTTTCAATTTCAACAATCAAAATGGCGTGAACAAGGACGAGAAGG
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GAGCCAGCGGGCCATGCTGCAGTGAAGGGTGGAGTGGAGTGGAGGAGGCTAGCAGAGCAGCAG
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GAGGTGACCAAACAGGTGTCCGTGGCCCGCAAGCCAGGTGGATTTGGAAAGAGAGAAAAAGAGCTAG
 CAGATTCCTTTGCACGGACTCAAGAGCAACAGGATGTTCTAGAGAACCTGAAGCATGAACTGGCCACCAG
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 AGGCAAAGGGAAGTTCGAGGAGCTGATGGTGTGTTACGCGGAGATTGCTGCCAGTACTGCCAGCTCGTG
 GCTGCATCCAAGGTGAAAGCGAACAAGGCAGCCCTCAATCTGACCCAGCTGCAGCAGGCCTCTCGAGGAG
 TGAACCAGGCCACAGCCGCTGTGGTGGCCTCAACCATTCTGGCAATCTCAGATTGAGGAAACAGACAG
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 GAGCTGGAAAATGACCTGCAGAAGGAGCGTCAGAACTAGGAGAGCTACGGAAGAAACACTACGAGCTGG
 CGGGCGTGGCTGAGGGCTGGGAGGAAGGACAGAAGCATCACCGTCTACTGTCCAAGAAGCAATACCGGA
 CAAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211131 representing NM_146001
 Red=Cloning site Green=Tags(s)

MDRMASMKQVSNPLPKVLSRRGVGAGMEAERESFERTQTVSVNKAINTEQEVAVKEKHARTCILGTHHE
 KGAQTFWVSVNRLPLSSNAMLCKWFCHVFHKLRLDGHVNLKDSLRYKNELSDMSRMWHLSEGYQLCS
 IYLKLLRTRMEYHTKNPRFPGNLQMSDRQLDEAGESDVNFFQLTVEMFDYLECELNLFQTVFNSLDMSR
 SVSVTTAGQCRLAPLIQVILDCSHLYDYTVKLLFKLHSLPADTLQGHRDRFMEQFTKLKDLFQRSSNLQ
 YFKRLIQIPQLPENPPNFLRASALSEHISPVVVIPAENVSPDSEPVLEKDDLMDMDASQQTLFDNKFDDV
 FGSSLSSDPFNFNNGVNVKDEKDHILIERLYREISGLTGQLDNMKIESQRAMLQLKGRVSELEAELAEQQ
 HLGQRQAMDDCEFLRTELDELKRQREDTEKAQRSLTEIERKAQANEQRYSKLKEKYSSELVQNHADLLRKN
 EVTKQVSVARQAQVDLREKKELADSFARTQEQQDVLENLKHELATSRQELQVLHNSLETSAQSEAKWLT
 QIAELEKEQGSLATVAAQREEELSALRDQLESTQIKLAGAQESMCQQVKDQRKTLLAGIRKAAEREIQEA
 LSQLEEPTLISCAGSTDHLLSKVSSVSCLQLEKNGSQYLACPEDISELLHSITLLAHLTGDTIIQGS
 TSLRAPPEPADSLTEACRQYGRETLAYLSSLEEEGTMENADVTLRNCLSRVKTLGEELLPRGLDIKQEE
 LGDLVDKEMAATSAAIEAATTRIEEILSKSRAGDTGVKLEVNLERILGCTSLMQAIKVLVASKDLQKEI
 VESGRGTASPKEFYAKNSRWTEGLISASKAVGWGATIMVDAADLVVQGGKFEELMVCRESIAASTAQLV
 AASKVKANKGSLNLTQLQASRVGNQATAAVVASTISGKSQIEETDSMDFSSMTLTQIKRQEMDSQVRVL
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TRTRPLE - GFP Tag - V

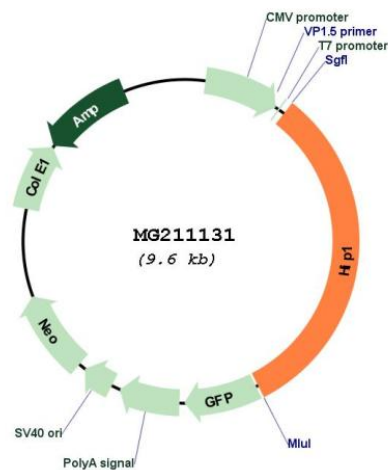
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_146001

ORF Size: 3087 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:	<u>NM_146001.2</u> , <u>NP_666113.2</u>
RefSeq Size:	7883 bp
RefSeq ORF:	3090 bp
Locus ID:	215114
UniProt ID:	<u>Q8VD75</u>
Cytogenetics:	5 75.18 cM
Gene Summary:	Plays a role in clathrin-mediated endocytosis and trafficking (PubMed:11577110). Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner (PubMed:12839988, PubMed:17329427). Regulates presynaptic nerve terminal activity (PubMed:17928447). Enhances androgen receptor (AR)-mediated transcription (By similarity). May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway (By similarity). Binds 3-phosphoinositides (via ENTH domain) (By similarity). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis (By similarity). May play a functional role in the cell filament networks (By similarity). May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors (PubMed:11604514, PubMed:14998932, PubMed:16967501, PubMed:17928447).[UniProtKB/Swiss-Prot Function]