

## Product datasheet for **MG220381**

### Hdgfl2 (NM\_008233) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hdgfl2 (NM_008233) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hdgfl2
Synonyms:	Hdgfrp2; HRP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220381 representing NM\_008233  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCACGCCCTCAAGCCCGGGGACTTGGTGTGGTCCCAAGATGAAGGGCTACCCGCACTGGCCGGCCC  
 GGATTGATGACATTGCTGATGGTGCCGTGAAGCCCCACCCAACAAATACCCCATCTTCTTTTGGAAC  
 GCATGAAACGGCCTTCCTGGGACCCAAGGACCTGTTCCCTATGATAAGTGCAAGGACAAGTACGGAAAG  
 CCCAACAGAGGAAAGGCTTCAATGAGGGGCTCTGGGAGATCCAGAACAACCCCATGCCAGCTACAGTG  
 CGCCTCCGCCGTGAGCTCCTCTGACAGTGAGGCCCTGAAGCCGACCTGGGTTGTGGCAGCGACGTGGA  
 CAAGGACAAGAATCCCGGAGGGTCATGACTGTGACAGCTGTGACCACCACAGCCACCAGTGACAGGATG  
 GAGAGCGATTCTGACTCTGACAAGAGCAGTGATCACAGTGGCCTGAAGCGGAAGACACCAGTCTTGAAGG  
 TGTCAGTCTCTAAACGAGCTAGAAGAGCTTCCAGTGACCTGGATCAGGCCAGTGTGTCCCATCAGAAGA  
 GGACTCTGAGAGCCCATCTGAGTCGGAGAAGACCAGTGACCAGGATTTTACCCAGAGAAGAAGACAGCG  
 GCCCGGCCGCCACGGCGAGGTCCTCTGGGAGGACGCAAGAAGAAGAAGGTGCCATCAGCCTCGGATTCAG  
 ACTCAAAGCCGACTCAGATGGGGCCAAGGAGGAGCCTGTGGTTACAGCACAGCCGTCTCCATCCTCCTC  
 GTCGTCGTCCTCATCATCCTCCTCAGACTCAGATGTGTCTGTCAAGAAACCCCTCGAGGTAGAAAAG  
 CCAGCTGAGAAGCCACCCCAAAACCCCGAGGGCGGAGACCAAGCCAGAACGACCACCTTCCACCTCCA  
 GCAGTGACAGTGACAGTGACAGTGGTGAAGTAGACCGCATCAGTGAATGGAAGAGACGTGATGAAGAGCG  
 AAGGCGTGAGCTGGAGGCTCGGAGGCGACGGGAGCAGGAGGAAGAGCTCCGGAGACTTCGAGAACAGGAG  
 AGGGAGGAGAAGGAGCGCGCAAGGAGCGGGCAGAGCGTGGGGGACAGTGGAGAGGAGCTGGAGGACG  
 AGGAGCCTGTGAAGAAGCGTAGCCGAAAGGCTCGAGGCCGAGGCACACCATCCTCCTCTGACTCAGAACC  
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 AGCGGACGCGGAAGCGGTGAGAGGCTCTCACTGAAAGGAAGGGGGAGAAGAAGAAGAACCTCCGT  
 AGAGGAGAGACTGCAAAAGCTGCACAGCGAGATCAAATTTGCACTGAAGGTTGACAACCCAGATGTGAGG  
 AAGTGTCTGAGTGCACTGGAAGAAGTGGGGACTCTGCAGGTAACCTCTCAGATTCTCAGAAGAACACAG  
 ATGTGGTAGCAACGCTGAAGAAGATTCGCCGTACAAGGCCAACAAGGATGTGATGGCGAAGGCAGCAGA  
 GGTCTACACCCGGCTCAAGTACGGGTCCTGGGCGGAAAGTTGAGGCTCTCAGAAGGTGAACAAGGCT  
 GGAGCCGAGAAGAACGGGCCGATAACGAGAAGCTAGAGGAGCAGCCGGGGGAGCAGGCTCCAGAGAGC  
 TGGCAGAGGATGAGCCCAGCACCGATCGGTCAGCACCTGTGAATGGTGAAGCCACATCCCAGAAGGGGGA  
 GAACATGGAAGACAGAGCACAGGAAGACGGGCAGGACTCTGAAGATGGCCCCAGGGGTGGCTCCTCAGAA  
 GAGCTGCATGACAGCCCACGCGACAACCTCGGACCCAGCCAAGCCTGGAATGAGCGTCAGGACCATGAGA  
 GGACACGGCTGGCCTCTGAGTCTGCAATGATGACAATGAGGACAGC

**ACCGGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG220381 representing NM\_008233  
Red=Cloning site Green=Tags(s)

```
MPHAFKPGDLVFAKMKGYPHWPARIIDDIADGAVKPPPKNKYPIFFFGTHETAFLGPKDLFPYDKCKDKYK
PNKRKGFNEGLWEIQNNPHASYSAPPPVSSSDSEAPEADL GCGSDVDKDESRVMTVTAVTTTATSDRM
ESDSDSDKSSDHSGLKRKTPVLKVSVKRARRASSDL DQASVSPSEEDSESPSEKTSQDQFTPEKKT
ARPPRRGPLGGRKKKKVPASDSDSKADSDGAKKEPVVTAQPSPSSSSSSSSSSSDSDSVYKPPRGRK
PAEKPPPKPRGRPKPERPPSTSSSDSDSGEVDRISEWKRRDEERRRELEARRRREQEEELRRLREQE
REEKERRKERAERGGSSGEELEDEEPVKKRSRKARGRGT PSSSDSEPEGELGKEGKLLAKKSQLPGSESA
RKPGQKEKRGRPDEKPRARPVKVERTKRSEGLSLERKGEKKKEPSVEERLQKLHSEIKFALKVDNPDVR
KCLSALEELGTLQVTSQILQKNTDVVATLKKIRRYKANKDVMKAAAEVYTRLKSRVLGPKVEALQKVNKA
GAEKERADNEKLEEQPGEQAPRELADEPSTDRSAPVNGEATSQKGENMEDRAQEDGQDSEDGPRGGSSE
ELHDSPRDNSDPAKPGNERQDHERTRLASESANDDNEDS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008233

**ORF Size:** 2007 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\\_008233.4](#)

**RefSeq Size:** 2251 bp

**RefSeq ORF:** 2010 bp

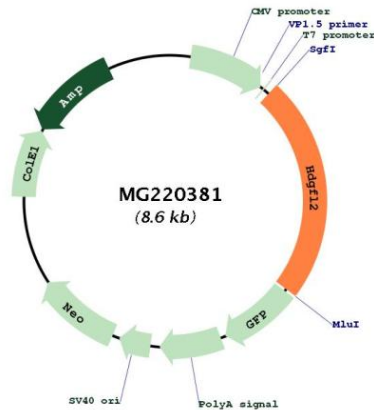
**Locus ID:** 15193

**UniProt ID:** [Q3UMU9](#)

**Cytogenetics:** 17 D

**Gene Summary:** Involved in cellular growth control, through the regulation of cyclin D1 expression (By similarity). Associates with chromatin. Isoform 1 and isoform 3 bind to condensed chromatin in mitotic cells. Isoform 4 binds to non-condensed chromatin in the presence of HDGF. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220381