

Product datasheet for **MG218209**

Fhdc1 (NM_001033301) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Fhdc1 (NM_001033301) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Fhdc1 |
| Synonyms: | 6330505N24Rik; Gm126 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG218209 representing NM_001033301 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

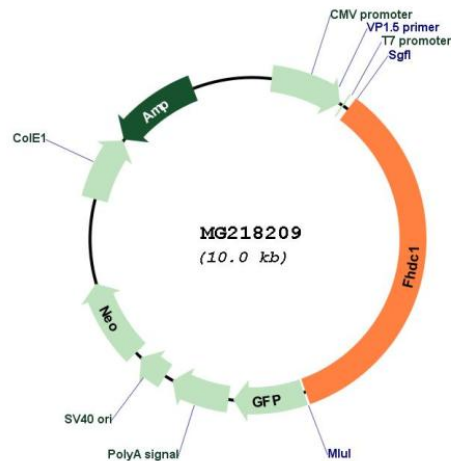
ATGCATGTTATGAATTGTGTCTCCCTGGCCAGCGATAAAGAAAATGGGACTCTTGCCACAGCAGCTGCAT
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TGCTCGGGCTCCAAGAAGTGTCTGAATCTGCTGGGGTTCAAGTGCCAATGTAGAAACCTCACTGAAG
GGCAGAGGGACGACGGAAGATCCTCTCTCAGACTGAAGGACTCGGGCAGGCCACCCCTCGGAGGATCC
TCCGTCCCCTGCAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Plasmid Map:



ACCN: NM_001033301

ORF Size: 3447 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_001033301.4](#), [NP_001028473.2](#)

RefSeq Size: 5930 bp

RefSeq ORF: 3450 bp

Locus ID: 229474

UniProt ID: [Q3ULZ2](#)

Cytogenetics: 3 F1

Gene Summary:

Microtubule-associated formin which regulates both actin and microtubule dynamics. Induces microtubule acetylation and stabilization and actin stress fiber formation (PubMed:18815276). Regulates Golgi ribbon formation (PubMed:26564798). Required for normal cilia assembly. Early in cilia assembly, may assist in the maturation and positioning of the centrosome/basal body, and once cilia assembly has initiated, may also promote cilia elongation by inhibiting disassembly (PubMed:29742020).[UniProtKB/Swiss-Prot Function]