

Product datasheet for **RG205951**

FATE1 (NM_033085) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FATE1 (NM_033085) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FATE1
Synonyms: CT43; FATE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205951 representing NM_033085
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGAGGCCCTCCCAACACCAAGGCGGAGATGAAATGTCCTGGCAGAAGAACTGAATCATGGAC
 GCCAAGGGGAAAACCAAGAGCACCTGGTATAGCAGAAATGATGGAGCTTGGATCTCGGTCCCGGGTGC
 CTCCCAGAAGAAGCAGAAGTTGGAACAAAAGCTGCTGGCTCTGCTTCCAGCCAAACGAGTTTGAATATG
 ACTGCCACCCGACCAAGAAAATGGGGTCCAGCTGCCAAAGCCAGAATGCTGAGAGAATCAGGCCATG
 GGGATGCCATCTCCAGGAGTACGCTGGCAATTTCCAAGGCATACGTTTCCATTATGATCGCAACCCAGG
 GACAGATGCAGTGGCGCAGACTAGCCTGGAAGAGTTCAATGTACTGGAGATGGAAGTCATGAGAAGACAG
 CTGTATGCAGTCAACCGCGTCTGCGCGCCCTGGAGGAACAGGGCGCCACCTGGCGCCACAGGGAGACCC
 TGATCATCGCCGTGCTGGTGTGCGCCAGCATTGCCAACCTGTGGCTGTGGATGAACCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205951 representing NM_033085
 Red=Cloning site Green=Tags(s)

MAGPPNTKAEMEMSLAEELNHGRQGENQEHLVIAEMMELGSRSRGASQKKQKLEQKAAGSASAKRVWNM
 TATRPKMGSQLPKPRMLRESGHGDAHLQEYAGNFQGIHFHYDRNPGTDAVAQTSLEEFNVLEMEVMRRQ
 LYAVNRRRLRALEEQGATWRHRETLIIAVLVSASIANLWLMNQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_033085

ORF Size: 549 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_033085.3](#)

RefSeq Size: 1071 bp

RefSeq ORF: 552 bp

Locus ID: 89885

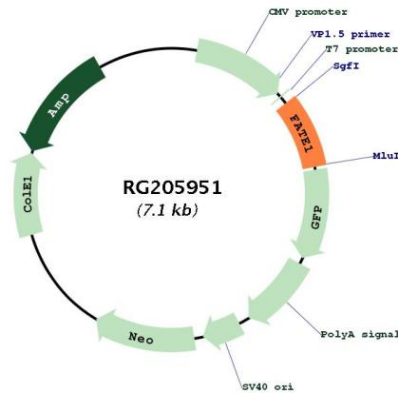
UniProt ID: [Q969F0](#)

Cytogenetics: Xq28

Protein Families: Transmembrane

Gene Summary: This gene encodes a cancer-testis antigen that is highly expressed in hepatocellular carcinomas and other tumors and weakly expressed in normal tissues except testis. The protein is strongly expressed in spermatogonia, primary spermatocytes, and Sertoli cells in seminiferous tubules. This protein may have a role in the control of early testicular differentiation and cell proliferation. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG205951