

Product datasheet for **RG205465**

FANK1 (NM_145235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FANK1
Synonyms:	HSD13
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205465 representing NM_145235
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCCAGAGAATCATGCCACCCTCAAAGCCTCATCCACCTGTCGTGGGCAAAGTGACTCATCACA
GCATTGAATTATACTGGGATCTGGAAGAAAGCAACGCAAGGACCTCAAGAGCAGTGGTTCAGGTT
CTCGATTGAAGAAGACCCCAAAATGCACATTATGGTATCATTTATACGGGATATGCAACGAAGCAT
GTTGTTGAAGGTCTGGAACCAAGGACGCTGTACAGATTCGCCTGAAGGTCACCAGCCCTCTGGGGAGT
GTGAGTACAGCCCACTCGTCTCAGTGTCTACAACCAGAGAGCCATAAGTAGTGAGCACTTGACCGGGC
TGTCAGTGTGAATGATGAAGATTTGCTGGTCCGAATACTTCAAGGAGGCCGTGTTAAGGTTGATGTTCCC
AATAAGTTTGGCTTTACCGCTCTGATGGTTGCTGCCCAGAAAGGATACACCAGGCTTGTGAAATCCTAG
TTTCTAATGGCACAGACGTGAATCTGAAGAATGGAAGTGGCAAGGACAGTCTAATGCTGGCGTCTATGC
GGGACACCTAGATGTTGTGAAATATCTCCGAAGACATGGCGCTTCTTGGCAGGCTAGAGACCTGGGAGGC
TGACAGCTCTGCACTGGGCTGCAGATGGAGGCCACTGCAGTGTGATTGAGTGGATGATAAAGGATGGCT
GTGAGGTAGACGTCGTGGACACTGGTTCAGGATGGACCCCACTCATGAGAGTCTCTGCGGTGTCGGGAAA
TCAGAGGTGGCTCTCTTCTAATTGATGCTGGGGCAATGTGAATGTGAAGGACAGAAATGGAAGACG
CCCTTATGGTGGCTGTGTTAAATAATCATGAAGAGTTAGTTCACTTCTTGACAAAGGGGCAGATG
CAAGTGAAAAATGAGTTCGGCAAGGTGCTCCTAGAAATGGCCAGAGTTTTTGACAGACAGAGTGTAGT
CTCCTTATTAGAAGAAAGGAAAAAAGCAGAGGCCAAGAAGTCTTGTGTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205465 representing NM_145235
 Red=Cloning site Green=Tags(s)

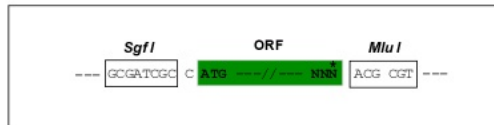
MEPQRIMPPSKPHPPVVGKVTTHHSIELYWDLEKKAKRQGPQEQWFRFSIEEEDPKMHTYGIIYTGATKH
 VVEGLEPRTLRYRFLKVTSPSGECEYSPLVSVSTTREPISSEHLHRAVSVNEDLLVRILQGGRVKVDVP
 NKFGFTALMVAQKGYTRLVKILVSNGTVDNLKNGSGKDSLMLACYAGHLDVVKYLRRHGASWQARDLGG
 CTALHWAADGGHCSVIEWMIKDGCEVDVDTGSGWTPLMRVSAVSGNQRVASLLIDAGANVNVKDRNGKT
 PLMVAVLNNHEELVQLLLDKGADASVKNEFGKGVLEMARVFDQRSVVSLLERKKKQRPKKSCVC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_145235

ORF Size: 1035 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145235.2](#), [NP_660278.2](#)

RefSeq Size: 1395 bp

RefSeq ORF: 1038 bp

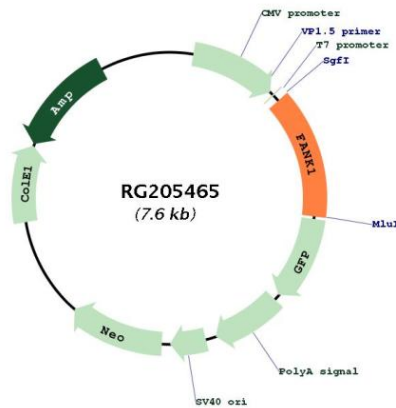
Locus ID: 92565

UniProt ID: [Q8TC84](#)

Cytogenetics: 10q26.2

Gene Summary: Through the activation of JUN and AP-1-mediated transcription, may regulate apoptosis.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205465