

Product datasheet for RC202492

FRAT2 (NM_012083) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FRAT2 (NM_012083) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: FRAT2

Synonyms: FRAT-2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC202492 representing NM_012083

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com Protein Sequence: >RC202492 representing NM_012083

Red=Cloning site Green=Tags(s)

MPCRREEEEEAGEEAEGEEEEDDSFLLLQQSVTLGSSGEVDRLVAQIGETLQLDAAQDSPASPCAPPGVPLRAPGPLAAAVPTDKARPPAVPLLLPPASAETVGPAPSGALRCALGDRGRVRGRAAPYCVAEVAAGPSALPGPCRRGWLRDAVTSRRLQQRRWTQAGARAGDDDPHRLLQQLVLSGNLIKEAVRRLQRAVAAVAATGPASAPGPGGGRSGPDRIALQPSGSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1475 b02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



CTATAGGGGGGCCG	_EcoR1 GGAATTCGTCGF	BamHIK			Kozac onsensus Sgfl CGCGATCGC	C ATG -	
ORF	Тими	Miui acg cgt ac t r t	Not I	Xhol TC GAG CA L E Q	g aaa ctc	Tag ATC TCA I S	GAA GAG E E
GAT CTG GCA GC. D L A A		_	Flag.Tag TAC AAG G Y K		GAT AAG D K	Pme I GTT TAA V Stop	Fse I

^{*} The last codon before the Stop codon of the ORF

ACCN: NM_012083

ORF Size: 699 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: <u>NM 012083.3</u>

RefSeq Size:2222 bpRefSeq ORF:702 bpLocus ID:23401

UniProt ID: <u>075474</u>

Cytogenetics: 10q24.1

Domains: GSK-3_bind

Protein Families: Druggable Genome, ES Cell Differentiation/IPS

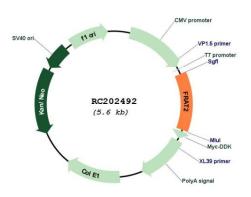
Protein Pathways: Wnt signaling pathway

MW: 23.9 kDa

Gene Summary: The protein encoded by this intronless gene belongs to the GSK-3-binding protein family.

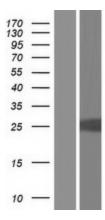
Studies show that this protein plays a role as a positive regulator of the WNT signaling pathway. It may be upregulated in tumor progression. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202492





Western blot validation of overexpression lysate (Cat# [LY415987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).