

Product datasheet for **MG227193**

Fkbp4 (NM_010219) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fkbp4 (NM_010219) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fkbp4
Synonyms:	59kDa; AL022792; AW208983; FKBP-4; FKBP-52; FKBP52; FKPB52; p59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227193 representing NM_010219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGCCGAGGAGATGAAGGCGCGGAGAACGGGGCGCAGTCGGCGCCCTGCCTCTCGAAGGAGTGG
 ACATCAGCCCCAACAGGACGAGGGCGTCTCAAGGTCATCAAGAGAGAGGGTACAGGCACAGAGACACC
 CATGATCGGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTGCTAGATGGCACAAGTTTGACTCCAGT
 CTGGACCGCAAGGACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTATCAAGGCTTGGGATATTGCTG
 TGGCAACCATGAAAGTGGGGGAGGTGTCCACATCACCTGCAAGCCAGAATATGCCTATGGCGCAGCAGG
 CAGCCCTCGAAGATCCCCCAACGCCACACTTGTATTTGAGGTGGAGCTGTTTGAATCAAAGGAGAA
 GACCTTACAGAAGAAGAAGATGGCGGGATCATCCGCAGAATACGGACTCGGGGTGAAGGCTATGCCAGGC
 CCAATGATGGTGTATGGTGAAGTGGCCCTGGAAGGCTACCACAAGGACCGCCTCTTTGACCAGCGGGA
 GCTCTGCTTTGAAGTCGGGGAAGGGGAAAGTCTAGATCTGCCCTGTGGGCTGGAGGAGGCCATTCAGCGC
 ATGGAGAAAGGAGAGCATTCCATCGTGTACCTCAAACCTAGCTATGCTTTTGGCAGTGTGGGGAAGGAGA
 GTTTCCAGATCCCACCGCAGCTGAGCTGAGGTATGAAGTGC GGCTGAAGAGCTTTGAGAAGGCCAAGGA
 GTCTTGGGAGATGAGCTCCGCGGAGAAGCTGGAGCAGAGCAACATAGTGAAGAGAGGGGCACCGCGTAC
 TTCAAGGAAGGCAAGTACAAGCAGGCGTTACTGCAGTACAAGAAGATCGTGTCTTGGCTAGAATACGAGT
 CTAGCTTTCCGGTGAGGAAATGCAAAAGGTCCTGCAGTCCGACTCCGACTGGCCTCACACCTCAATCTGGCCAT
 GTGTCACTGAACTGCAGGCCTTCTCAGCTGCCATCGAAAGTGCACAAGGCCTTGGAGCTGGACAGC
 AACACGAGAAGGGCCTGTTTCGCCGGGAGAGGCCACCTGGCCGTGAATGACTTTGACCTGGCAAGAG
 CTGACTTCAAAAGGTCCTGCAGCTCTATCCAGCAACAAGCCGCCAAGACCCAGCTGGCTGTGTGCCA
 GCAGCGGACCCGTAGGCAGCTCGCCCGGAAAAGAAGCTCTATGCCAACATGTTTGAAGGCTGGCTGAG
 GAGGAACACAAGGTGAAGGCAGAAGTGGCAGCAGGAGACCATCCCACTGATGCTGAGATGAAGGTTGAGC
 GGAACAATGTGGCTGAGAACCAGTCTCGGGTGGAGACAGAAGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227193 representing NM_010219
 Red=Cloning site Green=Tags(s)

MTAEEMKAAENGAQSAPLPLEGVDISPKQDEGLVKVIKREGTGTETPMIGDRVHVHTGWLLDGTKFDSS
 LDRKDKFSFDLKGGEVIKAWDIAVATMKVGEVCHITCKPEYAYGAAGSPPKIPPNATLVFEVLEFEFKGE
 DLTEEDGGIIRIRTRGEGYARPNDGAMVEVALEGYHKDRLFQRELCFEVGEESLDLPCGLEEAIQR
 MEKGEHSIVYLKPSYAFGSVGERFQIPPHAELRYEVRLLKSFKAKESWEMSSAEKLEQSNIVKERTAY
 FKEGKYKQALLQYKKIIVSWLEYESSFSGEEMQKVRALRLASHLNLAMCHLKLQAFSAAIESCNALELDS
 NNEKGLFRRGEAHLAVNDFDLARADFQKVLQLYPSNKAAKTQLAVCQQRTRRQLAREKKLYANMFERLAE
 EEHKVKA EVAAGDHPTDAEMKGERNNVAENQSRVETEA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_010219

ORF Size: 1374 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_010219.3](#), [NP_034349.1](#)

RefSeq Size: 2167 bp

RefSeq ORF: 1377 bp

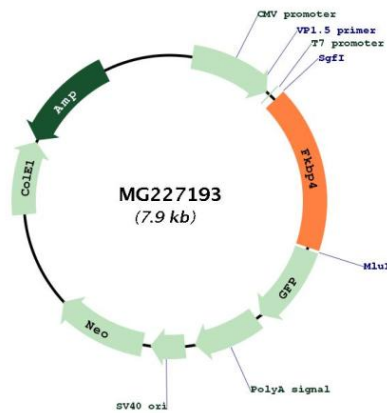
Locus ID: 14228

UniProt ID: [P30416](#)

Cytogenetics: 6 F3

Gene Summary:

Immunophilin protein with PPIase and co-chaperone activities. Component of steroid receptors heterocomplexes through interaction with heat-shock protein 90 (HSP90). May play a role in the intracellular trafficking of heterooligomeric forms of steroid hormone receptors between cytoplasm and nuclear compartments. The isomerase activity controls neuronal growth cones via regulation of TRPC1 channel opening. Acts also as a regulator of microtubule dynamics by inhibiting MAPT/TAU ability to promote microtubule assembly. May have a protective role against oxidative stress in mitochondria.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG227193