

Product datasheet for **RG216653**

FGFR1 Oncogene Partner (FGFR1OP) (NM_007045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FGFR1 Oncogene Partner
Synonyms:	FGFR1OP; FOP
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216653 representing NM_007045
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGGACGGCGGCCGAGTGGTGGCCGAGGAGGACACGGAGCTGCGGGACCTGCTGGTGCAGACGC
TGGAGAACAGCGGGGCTCTGAACCGCATCAAGGCTGAAGCTCCGAGCAGCTGTGTTTTAGCACTAGAGGA
GCAAGAAAAAGTAGAGAACAACTCCTTTAGTTAATGAGAGCCTGAAAAAGTTTTAAATACCAAGAC
GGTCGTTTAGTGGCTAGTCTTGTGCAGAAATTTCTCAGTTTTTAACCTTGACTTTACTTTGGCTGTTT
TTCAACCTGAACTAGCACACTGCAAGGTCTCGAAGGTCGAGAGAAATTTAGCCCGAGATTTAGGTATAAT
TGAAGCAGAAGTACTGTGGGTGGACCTTATTATTAGAAGTGATCAGGCGCTGTCAACAGAAAGAAAAA
GGGCCAACCACTGGGAAGGTGCATTTGATCTATCTGATGTACATTCTCCACCAAGTCACCAAGGGAA
AAACAAGTGCACAGACAACACCAAGTAAGATACCAAGGTATAAAGGACAAGGTAAAGAAGACAAGCGG
GCAGAAGGCTGGTGACAAGAAGGCCAATGATGAGGCCAATCAGAGTGATACAAGTGTCTCCTTGTCAGAA
CCCAAGAGCAAAAGCAGCCTTCACTTACTGTCCCATGAAACAAAAATTGGATCTTTTCTAAGCAACAGAA
CTTTAGATGGCAAGACAAGCTGGCCTTTGTCCAGATGAAGATGATATGGAAGGAGATTCTTTCTTTGA
TGATCCCATTCCTAAGCCAGAGAAAACTTACGGTTTGAGGAAGGAACCTAGGAAGCAAGCAGGAAGTCTG
GCCTCGCTCTCGGATGCACCCCTTTAAAAAGTGGACTCAGCTCCCTGGCGGGAGCCCTTCTTTAAAAAG
ACTCTGAGAGTAAAGGGGAAATACAGTTTTGAAAGATCTGAAATTGATCAGTGATAAAATTGGATCACT
TGGATTAGGAAGTGGAGAAGATGATGACTATGTTGATGATTTTAATAGTACCAGCCATCGCTCAGAGAAA
AGTGAGATAAGTATTGGTGAAGAGATAGAAGAAGACCTTTCTGTGGAATAGATGACATCAATACCAAGT
ATAAGCTTGATGACCTCACACAAGATCTGACTGTATCCAGCTCAGTGATGTTGCGGATTATCTGGAAGA
TGTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG216653 representing NM_007045
Red=Cloning site Green=Tags(s)

MAATAAAVVAEEDTELRLDVQTLNSGVLNRIKAELRAAVFLALEEQEKVENKTPLVNESLKKFLNTKD
GRLVASLVAEFLQFFNLDFTLAVFQPETSTLQGLEGRNLARDLGIIEAGTVGGPLLEVIIRRCQQKEK
GPTTGEALDLSDVHSPPKSPEGKTSAQTPSKIPRYKGQKKKTSQKAGDKKANDEANQSDTSVSLSE
PKSKSSLHLLSHETKIGSFSLNRTLKGDKAGLCPDEDDMEGDSFFDDPIPKPEKTYGLRKEPRKQAGSL
ASLSDAPPLKSSLAGAPSLKDSKRGNTVLKDLKLISDKIGSLGLGTGEDDDYVDDFNSTSHRSEK
SEISIGEEIEEDLSVEIDDINTSDKLDDLTDQLTVSQLSDVADYLEDVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007045

ORF Size: 1197 bp

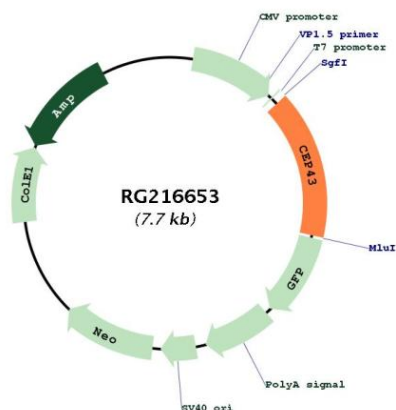
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_007045.4</u>
RefSeq Size:	1902 bp
RefSeq ORF:	1200 bp
Locus ID:	11116
UniProt ID:	<u>O95684</u>
Cytogenetics:	6q27
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a largely hydrophilic centrosomal protein that is required for anchoring microtubules to subcellular structures. A t(6;8)(q27;p11) chromosomal translocation, fusing this gene and the fibroblast growth factor receptor 1 (FGFR1) gene, has been found in cases of myeloproliferative disorder. The resulting chimeric protein contains the N-terminal leucine-rich region of this encoded protein fused to the catalytic domain of FGFR1. Alterations in this gene may also be associated with Crohn's disease, Graves' disease, and vitiligo. Alternatively spliced transcript variants that encode different proteins have been identified. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG216653