

Product datasheet for **RG201093**

TRK fused gene (TFG) (NM_006070) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRK fused gene (TFG) (NM_006070) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRK fused gene
Synonyms:	HMSNP; SPG57; TF6; TRKT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201093 representing NM_006070 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGACAGTTGGATCTAAGTGGGAAGCTAATCATCAAAGCTCAACTTGGGGAGGATATTCGGCGAA
TTCCTATTCATAATGAAGATATTACTTATGATGAATTAGTGCTAATGATGCAACGAGTTTCAGAGGAAA
ACTTCTGAGTAATGATGAAGTAAACAATAAAGTATAAAGATGAAGATGGAGATCTTATAACAATTTTGGAT
AGTTCTGACCTTTCCTTTGCAATTCAGTGCAGTAGGATACTGAAACTGACATTATTTGTTAATGGCCAGC
CAAGACCCCTTGAATCAAGTCAGGTGAAATATCTCCGTCGAGAAGTATGAGAAGTTCGAAATAAAGTGAA
TCGTTTATTGGATAGCTTGGAAACCCTGGAGAACCAGGACCTTCCACCAATATTCCTGAAAATGATACT
GTGGATGGTAGGGAAGAAAAGTCTGCTTCTGATTCTTCTGGAAAACAGTCTACTCAGGTTATGGCAGCAA
GTATGTCTGCTTTTGGATCCTTTAAAAAACAAGATGAAATCAATAAAAATGTTATGTCAGCGTTTGGCTT
AACAGATGATCAGGTTTCAGGGCCACCCAGTGCTCCTGCAGAAGATCGTTCAGGAACACCCGACAGCATT
GCTTCTCCTCCTCAGCAGCTCACCCACCAGGCGTTCAGCCACAGCAGCCACCATATACAGGAGCTCAGA
CTCAAGCAGGTCAGATTGAAGGTCAGATGTACCAACAGTACCAGCAACAGGCCGCTATGGTGCACAGCA
GCCGCAGGCTCCACCTCAGCAGCTCAACAGTATGGTATTCAGTATTCAGCAAGCTATAGTCAGCAGAT
GGACCTCAACAACCTCAGCAGTTCAGGGATATGGCCAGCAACCAACTTCCAGGCACCAGCTCCTGCCT
TTTCTGGTCAGCCTCAACAACCTGCCTGCTCAGCCGCCACAGCAGTACCAGGCGAGCAATTATCCTGCACA
AACTTACACTGCCAAACTTCTCAGCCTACTAATTATACTGTGGCTCCTGCCTCTCAACCTGGAATGGCT
CCAAGCCAACCTGGGCTATCAACCAAGACCAGGTTTTACTTCACTTCTGGAAGTACCATGACCCCTC
CTCCAAGTGGCCTAATCCTTATGCGCGTAACCGTCTCCTTTGGTCAGGGCTATACCAACCTGGACC
TGGTTATCGA

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201093 representing NM_006070
 Red=Cloning site Green=Tags(s)

MNGQLDL SGKLI IKAQLGEDIRRIPIHNEDITYDELVLMQRVFRGKLLSNDEVTIKYKDEDGDLITIFD
 SSDLSFAIQCSRILKLT L FVNGQPRPLESSQVKYL RRELIELRNKVNRLDLSLEPPGEPGPSTNIPENDT
 VDGREEKSASDSSGKQSTQVMAASMSAFDPLKNQDEINKNVMSAFGLTDDQVSGPPSAPAEDRSGTPDSI
 ASSSSAAHPPGVQPQQPPYTGAQTQAGQIEGQMYQQYQQQAGYGAQQPQAPPQQPQYGIQYSASYSQQT
 GPQQPQQFQGYGQPTSQAPAPAFSGQPQLPAQPPQQYQASNYPAQTYTAQTSQPTNYTVAPASQPGMA
 PSQPGAYQPRPGFTSLPGSTMTPPPSGPNPYARNRPPFGQGYTQPGPGYR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006070

ORF Size: 1200 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_006070.6](#)

RefSeq Size: 2098 bp

RefSeq ORF: 1203 bp

Locus ID: 10342

UniProt ID: [Q92734](#)

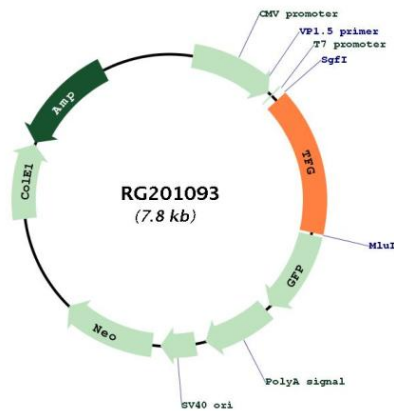
Cytogenetics: 3q12.2

Domains: PB1

Protein Pathways: Pathways in cancer, Thyroid cancer

Gene Summary: There are several documented fusion oncoproteins encoded partially by this gene. This gene also participates in several oncogenic rearrangements resulting in anaplastic lymphoma and mixoid chondrosarcoma, and may play a role in the NF-kappaB pathway. Multiple transcript variants have been found for this gene. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RG201093