

Product datasheet for **RC201093**

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:	Myc-DDK
Symbol:	TRK fused gene
Synonyms:	HMSNP; SPG57; TF6; TRKT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201093 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGACAGTTGGATCTAAGTGGGAAGCTAATCATCAAAGCTCAACTTGGGGAGGATATTCGGCGAA
TTCCTATTCATAATGAAGATATTACTTATGATGAATTAGTGCTAATGATGCAACGAGTTTCAGAGGAAA
ACTTCTGAGTAATGATGAAGTAAACAATAAAGTATAAAGATGAAGATGGAGATCTTATAACAATTTTGGAT
AGTTCTGACCTTTCCTTTGCAATTCAGTGCAGTAGGATACTGAAACTGACATTATTTGTTAATGGCCAGC
CAAGACCCCTTGAATCAAGTCAGGTGAAATATCTCCGTCGAGAAGTATGAGAAGTTCGAAATAAAGTGAA
TCGTTTATTGGATAGCTTGAACCACCTGGAGAACCAGGACCTTCCACCAATATTCCTGAAAATGATACT
GTGGATGGTAGGGAAGAAAAGTCTGCTTCTGATTCTTCTGGAAAACAGTCTACTCAGGTTATGGCAGCAA
GTATGTCTGCTTTTGGATCCTTTAAAAACCAAGATGAAATCAATAAAAATGTTATGTCAGCGTTTGGCTT
AACAGATGATCAGGTTTCAGGGCCACCCAGTGCTCCTGCAGAAGATCGTTCAGGAACACCCGACAGCATT
GCTTCTCCTCCTCAGCAGCTCACCCACCAGGCGTTCAGCCACAGCAGCCACCATATACAGGAGCTCAGA
CTCAAGCAGGTCAGATTGAAGGTCAGATGTACCAACAGTACCAGCAACAGGCCGCTATGGTGCACAGCA
GCCGCAGGCTCCACCTCAGCAGCCTCAACAGTATGGTATTCAGTATTCAGCAAGCTATAGTCAGCAGAT
GGACCTCAACAACCTCAGCAGTTCCAGGGATATGGCCAGCAACCAACTTCCAGGCACCAGCTCCTGCCT
TTTCTGGTCAGCCTCAACAACCTGCCTGCTCAGCCGCCACAGCAGTACCAGGCGAGCAATTATCCTGCACA
AACTTACACTGCCAAACTTCTCAGCCTACTAATTATACTGTGGCTCCTGCCTCTCAACCTGGAATGGCT
CCAAGCCAACCTGGGCTATCAACCAAGACCAGGTTTTACTTCACTTCTGGAAGTACCATGACCCCTC
CTCCAAGTGGCCTAATCCTTATGCGCGTAACCGTCTCCTTGGTCAGGGCTATACCAACCTGGACC
TGGTTATCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201093 protein sequence
Red=Cloning site Green=Tags(s)

MNGQLDL SGKLI IKAQLGEDIRRIPIHNEDITYDELVLMQRFVFRGKLLSNDEVTIKYKDEDGLITIFD
SSDL SFAIQCSRILKLT LFNVGQPRPLESSQVKYLRRELIELRNKVNRLDLSLEPPGEPGPNIPENDT
VDGREEKSASDSSGKQSTQVMAASMSAFDPLKNQDEINKNVMSAFGLTDDQVSGPPSAPAEDRSGTPDSI
ASSSSAAHPPGVQPQQPPYTGAQTQAGQIEGQMYQQYQQQAGYGAQQPQAPPQQYGIQYSASYSQQT
GPQQPQFQGYGQPTSQAPAPAFSGQPQLPAQPPQYQASNYPAQTYTAQTSQPTNYTVAPASQPGMA
PSQPGAYQPRPGFTSLPGSTMTPPSPGNPYARNRPPFGQGYTQPGPGYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6052_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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: 2090 bp

RefSeq ORF: 1203 bp

Locus ID: 10342

UniProt ID: [Q92734](#)

Cytogenetics: 3q12.2

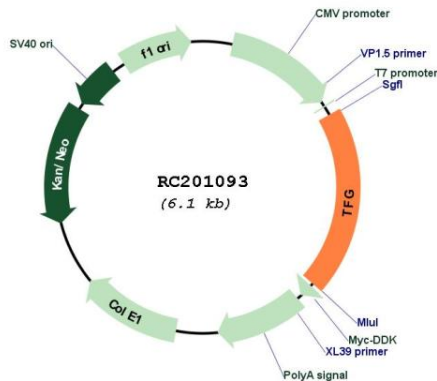
Domains: PB1

Protein Pathways: Pathways in cancer, Thyroid cancer

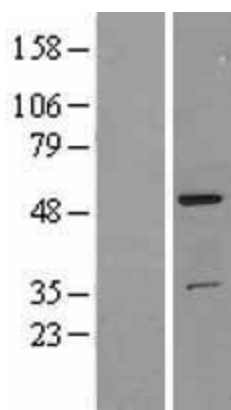
MW: 43.4 kDa

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 RC201093



Western blot validation of overexpression lysate (Cat# [LY401827]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201093 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).