

Product datasheet for **SC320314**

TRK fused gene (TFG) (NM_006070) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRK fused gene (TFG) (NM_006070) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRK fused gene
Synonyms:	HMSNP; SPG57; TF6; TRKT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006070.4
 GAGGGGCGAAAGGACATTTTTTTTTTCTTGCTCCCGCCTCTGTTCTTCCCCACCTGCC
 ACGTACAGAGCCCAAGTTCTCGCTAGGCTTGTGGGTACGCGGATTGGCCGGGGCCCGC
 GCGAGCCTGCGAGCGAGGTGCGGCGGTGCGGAAGGGCAACCGAGGGGGCCGTCACACCG
 CCTCCCCGCGACGCCAGTCCAGTGGCCTCGCGTCCGCCATTACAGCGGAGACCTGCGG
 AGAGGCGGCGGCCGCGGCTCCGCAAGCCGTCTTCTCTAGAGTTGTATATAGAACAT
 CCTGGAGTCCACCATGAACGGACAGTTGGATCTAAGTGGGAAGCTAATCATCAAAGCTCA
 ACTTGGGAGGATATTCGGCGAATTCCTATTCATAATGAAGATTAATTACTTATGATGAATT
 AGTGCTAATGATGCAACGAGTTTTTCAGAGGAAAACCTTCTGAGTAATGATGAAGTAACAAT
 AAAGTATAAAGATGAAGATGGAGATCTTATAACAATTTTTGATAGTTCTGACCTTTCCTT
 TGCAATTCAGTGCAGTAGGATACTGAAACTGACATTATTTGTTAATGGCCAGCCAAGACC
 CCTTGAATCAAGTCAGGTGAAATATCTCCGTGAGAACTGATAGAACTTCGAAATAAAGT
 GAATCGTTTATTGGATAGCTTGGAAACACCTGGAGAACCAGGACCTTCACCAATATTCC
 TGAATAATGATACTGTGGATGGTAGGGAAGAAAAGTCTGCTTCTGATTCTTCTGAAAACA
 GTCTACTCAGGTTATGGCAGCAAGTATGTCTGCTTTTGATCCTTAAAAAACCAAGATGA
 AATCAATAAAAAATGTTATGTCAGCGTTTGGCTTAACAGATGATCAGGTTTCAGGGCCACC
 CAGTGCTCCTGCAGAAGATCGTTCAGGAACACCCGACAGCATTGCTTCTCCTCCTCAGC
 AGCTCACCCACCAGGCGTTCAGCCACAGCAGCCACCATATACAGGAGCTCAGACTCAAGC
 AGGTGAGATTGAAGGTCAGATGTACCAACAGTACCAGCAACAGGCCGGCTATGGTGCACA
 GCAGCCGAGGCTCCACCTCAGCAGCCTCAACAGTATGGTATTGATTCAGTATTCAGCAAGCTA
 TAGTCAGCAGACTGGACCTCAACAACCTCAGCAGTTCAGGGATATGGCCAGCAACCAAC
 TTCCCAGGCACCACTCCTGCCTTTTCTGGTCAGCCTCAACAACCTGCCTGCTCAGCCGCC
 ACAGCAGTACCAGGCGAGCAATTAATCCTGCACAACTTACACTGCCAAACTTCTCAGCC
 TACTAATTATACTGTGGCTCCTGCCTCTCAACCTGGAATGGCTCCAAGCAACCTGGGGC
 CTATCAACCAAGACCAGTTTTACTTCACTTCTGGAAGTACCATGACCCCTCCTCCAAG
 TGGGCTAATCCTTATGCGCGTAACCGTCTCCTTTGGTTCAGGGCTATACCCAACCTGG
 ACCTGGTTATCGATAAGGAGGCTCCTCTACACCAATTAATGTAGCTGCTAGCTATTGGCC
 TCCCAAAAGACTCCAGTACTATTTAATTTGATTGAAGAAGTTCAGAAATTTAAAGCA
 GAGCATTTTTTATGATATCATTGTTGGTGAATTGAAAGTATAATTTGCTGGAACACAA
 AGACCAAAATGAAAGTTTTTCTCCTGCTTAAAAATGTAGCAGCTTCTAGTTACTTT
 GGAACACTACTCTTACATGTATAAAGTATTGACTTGACTTTCTAGCTTCCCTTGTCCGG
 AGGATATTAATAATGCTAGGGTGAGGTTTAGCCATCTTACTTGGCTTTTTACTATTAACAT
 GATGTAATAAAGTAGAGCCCTTTGAGAATACAAGATATTATGTATAAATGTAACACTGA
 TGATAGGTTAATAAAGATGATTGAATCCAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006070

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_006070.4](#), [NP_006061.2](#)

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]
Transcript Variant: This variant (1) represents the longest transcript, Variants 1, 2, and 3 encode the same protein (isoform 1).