

## Product datasheet for **SC127155**

### 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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127155 sequence for NM_006070 edited (data generated by NextGen Sequencing)

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ATGAACGGACAGTTGGATCTAAGTGGGAAGCTAATCATCAAAGCTCAACTGGGGAGGAT
ATTCGGCGAATTCTATTATAATGAAGATATTACTTATGATGAATTAGTGCTAATGATG
CAACGAGTTTTTCAGAGGAAAACCTCTGAGTAATGATGAAGTAACAATAAAGTATAAAGAT
GAAGATGGAGATCTTATAACAATTTTTGATAGTTCTGACCTTTTCTTTGCAATTCAGTGC
AGTAGGATACTGAAACTGACATTATTTGTTAATGGCCAGCCAAGACCCCTTGAATCAAGT
CAGGTGAAATATCTCCGTCGAGAACTGATAGAACTTCGAAATAAAGTGAATCGTTTATTG
GATAGCTTGGAAACCCTGGAGAACCAGGACCTCCACCAATATTCCTGAAAATGATACT
GTGGATGGTAGGGAAGAAAAGTCTGCTTCTGATTCTTCTGAAAACAGTCTACTCAGGTT
ATGGCAGCAAGTATGTCTGCTTTTGATCCTTTAAAAACCAAGATGAAATCAATAAAAAAT
GTTATGTCAGCGTTTGGCTTAACAGATGATCAGGTTTCAGGGCCACCCAGTGCTCCTGCA
GAAGATCGTTTCAGGAACCCCGACAGCATTGCTTCTCCTCCTCAGCAGCTCACCCACCA
GGCGTTACGCCACAGCAGCCACCATATACAGGAGCTCAGACTCAAGCAGGTGAGATTGAA
GGTCAGATGTACCAACAGTACCAGCAACAGGCCGGCTATGGTGCACAGCAGCCGAGGCT
CCACCTCAGCAGCCTCAACAGTATGGTATTCAGTATTCAGCAAGCTATAGTCAGCAGACT
GGACCCCAACAACCTCAGCAGTTCAGGGATATGGCCAGCAACCAACTCCCAGGCCACCA
GCTCCTGCCTTTTCTGGTCAGCCTCAACAACCTGCCTGCTCAGCCGCCACAGCAGTACCAG
GCGAGCAATTATCCTGCACAACTTACACTGCCAAACTTCTCAGCCTACTAATTATACT
GTGGCTCCTGCCTCTCAACCTGGAATGGCTCCAAGCCAACCTGGGGCCTATCAACCAAGA
CCAGGTTTTACTTCACTTCTGGAAGTACCATGACCCCTCCTCCAAGTGGGCCTAATCCT
TATGCGGTAAACCGTCTCCCTTTGGTCAGGGCTATACCAACCTGGACCTGTTATCGA
TAA

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Clone variation with respect to NM\_006070.5  
846 t=>c



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006070 unedited  GGATTTTGTAAATACGACTCACTATAGGGNCGCCGCGNAATTCGGCACGAGGAACATCC  TGGAGTCCACCATGAACGGACAGTTGGATCTAAGTGGGAAGCTAATCATCAAAGCTCAAC  TTGGGGAGGATATTCGGCGAATTCCTATTCATAATGAAGATATTACTTATGATGAATTAG  TGCTAATGATGCAACGAGTTTTTCAGAGGAAAACCTCTGAGTAATGATGAAGTAACAATAA  AGTATAAAGATGAAGATGGAGATCTTATAACAATTTTTGATAGTTCTGACCTTTCCTTTG  CAATTGAGTGCAGTAGGATACTGAAACTGACATTATTTGTTAATGGCCAGCCAAGACCCC  TTGAATCAAGTCAGGTGAAATATCTCCGTCGAGAAGCTGATAGAAGCTTCGAAATAAAGTGA  ATCGTTTTATTGGATAGCTTGGAACACCTGGAGAACCAGGACCTTCCACCAATATTCTCTG  AAAATGATACTGTGGATGGTAGGGAAGAAAAGTCTGCTTCTGATTCTTCTGGAAAACAGT  CTACTCAGGTTATGGCAGCAAGTATGTCTGCTTTTATCCTTTAAAAAACCAAGATGAAA  TCAATAAAAAATGTTATGTCAGCGTTTGGCTTAACAGATGATCAGGTTTCAGGGCCACCCA  GTGCTCCTGCAGAAGATCGTTCAGGAACACCCGACAGCATTGCTTCTCCTCCTCAGCAG  CTCACCCACCAGGCGTTCAGCCACAGCAGCCACCATATACAGNGAGCTCAGACTCAGCAG  GTCAGATTGAAGTGCAGATGTACCAACAGTACCAGCAACAGGCCGGCTATGGTGCACAGC  AGCCGCAGGCTCACCTCAGCAGCCTCACAGTATGGTATTCAGTATTCAGCAGCTATAGTC  AGN</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006070 unedited  CACGCTTCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTGGATTCAATCATTTTTATTAACCT  ATCATCAGTGTTACATTTTATACATAATATCTTGTATTCTCAAAGGGCTCTACTTTAGTA  CATCATGTTAATAGTAAAAAGCCAAGTAAGATGGCTAAACCTCACCTAGCATTTTAATA  TCCTCCGACAAGGGAAGCTAGAAAAGTCAAGTCAATCACTTTATACATGTAAGAGTAGTG  TTCCAAAGTAACTAAGAAGCTGTACATTTTTAAGCAGGGAGGAAAAAAGCTTTCATTTTG  GTCTTTGTGTTCCAGCAATTATACTTTCAATTAACACCAACAATGATATCATAAAAAAT  GCTCTGCTTTTAAATTTCTGAACCTTCTCAATACAAAATTAAGTACTGGAGTCTTTT  GGGAGGCCAATAGCTAGCAGCTACATTAATTTGGTGTAGAGGAGCCTCCTTATCGATAACC  AGGTCCAGGTTGGGTATAGCCCTGACCAAAGGGAGGACGGTTACGCGCATAAGGATTAGG  CCCCTTGGAGGAGGGGTATGGCACTTCCAGGAAGTGAAGTAAAACCTGGTCTTGGTTG  ATAGGCCCCAGTTTGGCTTGCAGCCATTCCAGGTTGAGAGGCAGGAGCCACAGTATAATT  AGTAGGCGGTGAGCGGCAGTTGCTGAAGCTGACCAAANACGGCAGGAGCTGTGCCCTGGA  AGTTGNTGCTGGCCATATCCCTGAACTGCTGAGGTGTTGGGGCCAATCGTGCTATAGCT  GCTGATACTGATACATACTGTTGAGCTGCTGAAGTGAACCTCGGCTGCTGGCACCATAAC  GGCCTGTGCTGTACCGTGGTCCATCTGCACTAATCTGACCGCTTGGCTTGACCCTGTTAA  GTCGCTGCTGGGTTG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006070
<b>Insert Size:</b>	1600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).