

## Product datasheet for **RG230820**

### TRK fused gene (TFG) (NM\_001195479) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRK fused gene (TFG) (NM_001195479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFG
Synonyms:	HMSNP; SPG57; TF6; TRKT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230820 representing NM_001195479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGGACAGTTGGATCTAAGTGGGAAGCTAATCATCAAAGCTCAACTTGGGGAGGATATTCGGCGAA  
TTCCTATTCATAATGAAGATATTACTTATGATGAATTAGTGCTAATGATGCAACGAGTTTCAGAGGAAA  
ACTTCTGAGTAATGATGAAGTAAACAATAAAGTATAAAGATGAAGATGGAGATCTTATAACAATTTTGTGAT  
AGTTCTGACCTTTCCTTTGCAATTCAGTGCAGTAGGATACTGAACTGACATTATTTGTTAATGGCCAGC  
CAAGACCCCTTGAATCAAGTCAGGTGAAATATCTCCGTCGAGAAGTATGAGAAGTTCGAAATAAAGTGAA  
TCGTTTATTGGATAGCTTGAACCACTGGAGAACCAGGACCTTCCACCAATATTCCTGAAAATGATACT  
GTGGATGGTAGGGAAGAAAAGTCTGCTTCTGATTCTTCTGGAAAACAGTCTACTCAGGTTATGGCAGCAA  
GTATGTCTGCTTTTGGATCCTTTAAAAAACAAGATGAAATCAATAAAAATGTTATGTCAGCGTTTGGCTT  
AACAGATGATCAGGTTTCAGGGCCACCCAGTGCCTCGAGAAGATCGTTCAGGAACACCCGACAGCATT  
GCTTCTCCTCCTCAGCAGCTCACCCACCAGGCGTTCAGCCACAGCAGCCACCATATACAGGAGCTCAGA  
CTCAAGCAGGTCAGATGTACCAACAGTACAGCAACAGGCCGGCTATGGTGCACAGCAGCCGACGGCTCCA  
CCTCAGCAGCCTCAACAGTATGGTATTCAGTATTCAGCAAGCTATAGTCAGCAGACTGGACCTCAACAAC  
CTCAGCAGTTCAGGGATATGGCCAGCAACCAACTTCCAGGCACCAGCTCCTGCCTTTTCTGGTCAGCC  
TCAACAAGTGCCTGCTCAGCCGCCACAGCAGTACCAGGCGAGCAATTATCCTGCACAAAATTACACTGCC  
CAAAGTCTCAGCCTACTAATTATACTGTGGCTCCTGCCTCTCAACCTGGAATGGCTCCAAGCCAACCTG  
GGGCTATCAACCAAGACCAGGTTTTACTTCACTTCTGGAAGTACCA

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230820 representing NM\_001195479  
 Red=Cloning site Green=Tags(s)

MNGQLDL SGKLI IKAQLGEDIRRIPIHNEDITYDELVLMQRFVFRGKLLSNDEVTIKYKDEDGDLITIFD  
 SSDLSFAIQCSRILKLT L FVNGQPRPLESSQVKYLRRLEIELRNKVNRLDLSLEPPGEPGPSTNIPENDT  
 VDGREEKSASDSSGKQSTQVMAASMSAFDPLKNQDEINKNVMSAFGLTDDQVSGPPSAPAEDRSGT PDSI  
 ASSSSAAHPPGVQPQQPPYTGAQTQAGQMYQQYSNRPAMVHSSRRLHLSLNSMVFSIQQAIVSRLDLNN  
 LSSSRDMASNQLPRHQLLPFLVSLNCLLSRHSSTRRAIILHKL TLPKLLSLLIILWLLPLNLEWLQANL  
 GPINQDQVLLHFLEVP

TRTRPLE - GFP Tag - V

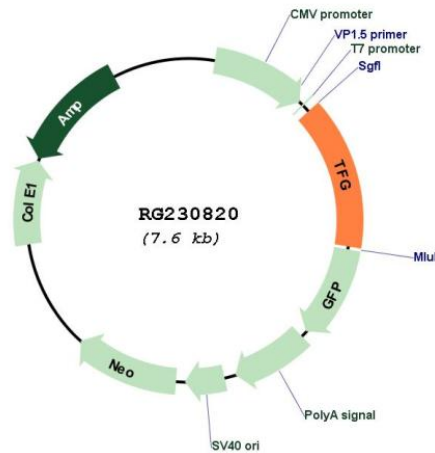
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001195479

<b>ORF Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001195479.1</a> , <a href="#">NP_001182408.1</a>
<b>RefSeq Size:</b>	2078 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	10342
<b>UniProt ID:</b>	<a href="#">Q92734</a>
<b>Cytogenetics:</b>	3q12.2
<b>Protein Pathways:</b>	Pathways in cancer, Thyroid cancer
<b>Gene Summary:</b>	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]