

Product datasheet for **SC315454**

TrkA (NTRK1) (NM_002529) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkA (NTRK1) (NM_002529) Human Untagged Clone
Tag:	Tag Free
Symbol:	TrkA
Synonyms:	MTC; p140-TrkA; TRK; Trk-A; TRK1; TRKA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_002529 edited
ATGCTGCGAGGCGGACGGCGCGGGCAGCTTGGCTGGCACAGCTGGGCTGCGGGGCCGGG
AGCCTGCTGGCTTGGCTGATACTGGCATCTGCGGGCGCCGACCCTGCCCGATGCCTGC
TGCCCCACGGCTCCTCGGGACTGCGATGCACCCGGATGGGGCCCTGGATAGCCTCCAC
CACCTGCCCGGCGCAGAGAACCTGACTGAGCTCTACATCGAGAACCAGCAGCATCTGCAG
CATCTGGAGTCCGTGATCTGAGGGGCTGGGGAGCTGAGAAACCTACCATCGTGAAG
AGTGGTCTCCGTTTCGTGGCGCCAGATGCCTTCCATTTCACTCCTCGGCTCAGTCGCCTG
AATCTCTCCTTCAACGCTCTGGAGTCTCTCCTCGGAAAACCTGTGCAGGGCCTCTCCTTA
CAGGAACTGGTCTGTGCGGGAAACCCTCTGCACTGTTCTTGTGCCCTGCGCTGGCTACAG
CGCTGGGAGGAGGAGGACTGGGCGGAGTGCCTGAACAGAAGCTGCAGTGTATGGGCAA
GGGCCCTGGCCACATGCCAATGCCAGCTGTGGTGTGCCACGCTGAAGGTCCAGGTG
CCCAATGCCTCGGTGGATGTGGGGACGACGTGCTGCTGCGGTGCCAGGTGGAGGGGCGG
GGCCTGGAGCAGGCCGGTGGATCCTCACAGAGCTGGAGCAGTCAGCCACGGTGTGAAA
TCTGGGGTCTGCCATCCCTGGGGCTGACCCTGGCCAATGTACCAGTGACCTCAACAGG
AAGAACGTGACGTGCTGGGCAGAGAACGATGTGGGCCGGGCGAGAGTCTCTGTTCAAGTC
AACGTCTCCTTCCCGCCAGTGTGCAGCTGCACACGGCGGTGGAGATGCACCACTGGTGC
ATCCCCCTCTCTGTGGATGGGCAGCCGGCACCGTCTCTGCGCTGGCTCTTCAATGGCTCC
GTGCTCAATGAGACCAGCTTTCATCTTCACTGAGTTCCTGGAGCCCGCAGCCAATGAGACC
GTGCGGCACGGGTGTCTGCGCCTCAACCAGCCACCCACGTCAACAACGGCAACTACAGC
CTGCTGGCTGCCAACCCCTTTCGGCCAGGCCCTCCGCTCCATCATGGTGCCTTTCATGGAC
AACCCCTTCGAGTTCAACCCCGAGGACCCCATCCCTGTCTCCTTCTCGCCGGTGGACACT
AACAGCACATCTGAGACCCGGTGGAGAAGAAGGACGAAACACCTTTTGGGGTCTCGGTG
CTGTGGGCTGGCCGTCTTTCGCTGCCTCTTCCCTTCTACGCTGCCTTGTGCTCAAC
AAATGTGGACGGAGAAACAAGTTTGGGATCAACCGCCCGCTGTGCTGGCTCCAGAGGAT
GGGCTGGCCATGTCCCTGCATTTTCATGACATTGGGTGGCAGTCCCTGTCCCCCACCAG
GGCAAAGGCTCTGGGCTCCAAGGCCACATCATCGAGAACCACAATACTTCAGTGTATGCC
TGTGTTCAACCACATCAAGCGCCGGGACATCGTGTCAAGTGGGAGCTGGGGGAGGGCGCC
TTTGGGAAGTCTTCTTGTGAGTGCCACAACCTCCTGCCTGAGCAGGACAAGATGCTG
GTGGCTGTCAAGGCACTGAAGGAGGCGTCCGAGAGTGTGCGCAGGACTTCCAGCGTGAG
GCTGAGTGTCTACCATGCTGCAGCACCAGCACATCGTGCCTTCTTTCGGCGTCTGCACC
GAGGGCCGCCCTGCTCATGGTCTTTGAGTATATGCGGCACGGGACCTCAACCGCTTC
CTCCGATCCCATGGACCTGATGCCAAGCTGCTGGCTGGTGGGAGGATGTGGCTCCAGGC
CCCCTGGGCTGCGGGCAGCTGCTGGCCGTGGCTAGCCAGGTGCTGCGGGGATGGTGTAC
CTGGCGGGTCTGCATTTTGTGCACCGGGACCTGGCCACACGCAACTGTCTAGTGGGCCAG
GGACTGGTGGTCAAGATTGGTGATTTTGGCATGAGCAGGGATATCTACAGCACCAGCTAT
TACCGTGTGGGAGGCCGACCATGCTGCCATTTCGCTGGATGCCGCCCGAGAGCATCCTG
TACCGTAAGTTTACCACCGAGAGCGACGTGTGGAGCTTCCGGCGTGGTGTCTGGGAGATC
ACGCAGGGACGTGAGTTGGAGCGGCCACGTGCCTGCCACCAGAGGTCTACGCCATCATG
CGGGGCTGCTGGCAGCGGGAGCCCCAGCAACGCCACAGCATCAAGGATGTGCACGCCCCG
CTGCAAGCCCTGGCCAGGCACCTCCTGTCTACCTGGATGTCCTGGGCTAG
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5' Read Nucleotide Sequence:	<p>>Reverse primer walk for NM_002529 unedited</p> <pre>GGGGNCCCACTACGTTTCGTGCCCCACTNCCACCGNAGNCCATTGGGCACCTGGNACCTT CAGCGTGGGCACACCACAGCTGGCATTGGGCATGTGGGCCAGGGGCCCTTGCCCATGACA CTGCAGCTTCTGTTTCAGGCACTCCGCCAGTCCCTCCTCCTCCAGCGCTGTAGCCAGCG CAGGGCACAAGAACAGTGCAGAGGGTCCCCGACAGGACCAGTTCCTGTAAGGAGAGGGCC CTGCACAGTTTTCCAGGAGAGAGACTCCAGAGCGTTGAAGGAGAGATTACGGCGACTGAG CCGAGGAGTAAAATGGAAGGCATCTGGCGCCACGAAACGGAGACCCTTTCACGATGGT GAGGTTTTCTCAGCTCCCCAGGCCCTCAGATCACGGAGCTCCAGATGCTGCAGATGCTG CTGTTTCTCGATGTAGAGCTCAGTCAGGTTCTCTGCGCCGGGCAGGTGGTGGAGGCTATC CAGGGCCCATCCCGGGTGCATCGCAGTCCCGAGGAGCCGTGGGGCAGCAGGCATCGGG GCAGGGTGCAGCGCCCGCAGATGCCAGTATCAGCCAAGCCAGCAGGCTGCCCGGCCCCGC AGCCAGCTGTGCAGCCAAGCTGCCCGCGCCGTCGCCCTCGCAGCATGCGGCGCCCTA TAGTGAGTCGTATTACANAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCT CCCACCGTACACGCCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACGACATTTT GGGAAAGTCCCCGTGATTTTTGGTGCCAAAACAACTNCCATTGGACGTCATGGGTTGGA GACTTGAAATCCCCGTGAGTCAAACCGCTATCCAGCCCCATTGGTGTACTGCCAAACC GATCAACCTGGTAATAGCGA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002529 unedited</p> <pre>GGCAATGGGGAGGCAACTTCCAGGCCAGNATAGCACTGGGGAGGGTACAGGGATGCCCC GGGACGTTCAGAAACAGCTATGACCGCGGCCGCAATCTAGAGCGTCACGAGCTAGCCCAG GACATCCAGGTAGACAGGAGGTGCTGGGCCAGGGCTTGACGCCGGCGTGCACATCCTT GATGCTGTGGCGTTGCTGGGGCTCCCGTGCCAGCAGCCCCGCATGATGGCGTAGACCTC TGGTGGGCAGGCACGTGGCCGCTCCAACCTCACGTCCCTGCGTGATGCAGTCGATTGCCTC CGTGTGGAGAGCTGGTACCAGGGCTGCTTGCCGTAGGTGAAGATCTCCCAGAGCACCAC GCCGAAGTCCACACGTCGCTCTCGGTGGTGAACCTACGGTACAGGATGCTCTCGGGCGG CATCCAGCGAATGGGCAGCATGGTGCAGGCTCCACACGGTAATAGTCGGTGCTGTAGAT ATCCCTGCTCATGCCAAAATCACCAATCTTGACCCACAGTCCCTGNCCCACTAGACAGT TTGCGTGTGGCCAGGTCCCGGTGCACANAATGCAGACCCGCCAGGTACACCATCCCCGCA GGGACCTGGCTAGCCANCGGGGGCNAGCACCTGCCCAAACCCAGGGGGCCTGGACCCCC ATTCTCCCACAACCAAACTTGAATTAGTCCATGGAATCNNNNNAAGAAAAAAACC CCTTTGTAGTCCCTCTGGCCGCCATTTCTCTAAAAACTATAGCCGGGGGGGCCCTCT TGGGCCAACCCCCCAAAACCCCAAGTGTGTTGGTTTTCCCGGTGGGAAAAACCCCA CCCCCCCCCGGAAAATCCTGGGAAAACCTTTGGGACCCTTTTTTTTTGG</pre>
Restriction Sites:	Please inquire
ACCN:	NM_002529
Insert Size:	2400 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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_002529.3 , NP_002520.2
RefSeq Size:	2663 bp
RefSeq ORF:	2391 bp
Locus ID:	4914
UniProt ID:	P04629
Cytogenetics:	1q23.1
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Apoptosis, Endocytosis, MAPK signaling pathway, Neurotrophin signaling pathway, Pathways in cancer, Thyroid cancer
Gene Summary:	<p>This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, cognitive disability and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2).</p>