

**Specifications:**

|                |                  |
|----------------|------------------|
| Gene:          | mNtrk3           |
| Accession:     | NP_032772        |
| Insert size:   | 2491bp           |
| Concentration: | 10µg at 0.2µg/µL |

**Description**

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

**Preparation and Storage**

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

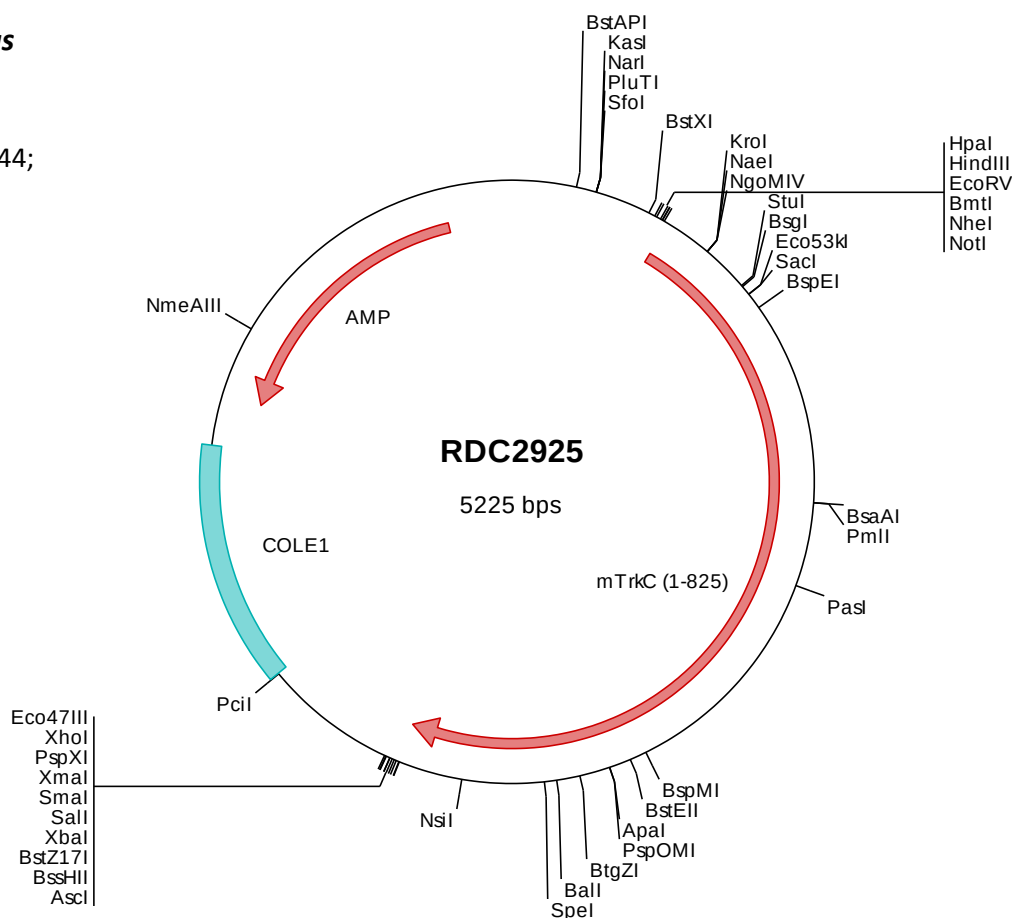
**mTrkC cDNA Plasmid**

**Ntrk3 neurotrophic tyrosine kinase, receptor, type 3 [ *Mus musculus* (house mouse) ]**

**Also known as:** TrkC; AW125844; Ntrk3\_tv3

**Summary:**

TrkC is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. It is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signaling through TrkC leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in TrkC have been associated with medulloblastomas, secretory breast carcinomas and other cancers.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC2925 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
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201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaagg ggaatgtctg caaggcgatt aagtgggta agccagggtt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatcgata tcgctagcgc ggccggcacc atggatgtct ctctttgccc agccaagtgt agtttctggc ggattttctt
501  gctgggaagc gtctggctgg actatgtggg ctccgtgtct gcttgccctg caaatgtgtt ctgcagcaag actgagatca attgccggcg gccggacgat
601  gggaacctct tcctctctct ggaaggcgag gattcaggga acagcaatgg gaacgccagc atcaacatta cggacatctc aaggaatata acttccatac
701  acatagagaa ctggcgaggg ctgcacacac tcaatgtctg ggacatggag ctctacacgg gactccagaa gctgacctac aagaattctg gactccggaa
801  catccagccc agagcctctg ccaagaaccc ccacttgcgt tatataaact tgtcaagtaa ccggctcacc acactctcct ggacgtctct ccagacgctg
901  agccttcggg aattgagact ggagcagaac ttcttcaact gcagctgtga catccgctgg atgcagctgt ggaggaaca gggggaggcg cggctggaca
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1501 gactactacc aggaggggga ggtctcagag ggtgcctgc tottcaacaa gcccccacc tacaacatg gcaactacac cctcattgct aagaatggcc
1601 tactcggatg caaccgagcc acttctctga ggagcccttt cctgacacaa cagatgtctt cagatttttg tgactttgag gacctacacc
1701 tctctatcat gtgacccaca aaccagagga agacactttt ggggtgtcca tagcagtcgg acttgcctgc tttgctgtg tocttctggt ggttctctt
1801 atcatgatca acaagtatgg tcgcgcgtcc aaatttggaa tgaagggtcc tgtggctgtt atcagtggag agggagactc agccagccca ctgcataca
1901 tcaaacactgg catcactatg ccatcatcgt ttgatgtctg gctgcacata cagatgcccg catccagtc catccagtc agctactct
2001 ccgtcagggt cacaattgcc acaagccaga cacatatgtt cagcacatca agaggagaga catctgtgtt aagagagaa tgggtgaggg agcctttggg
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2201 atttccagtg ggaagctgag ctgctcacga acctgcagca tgagcatatt tgcagttctt atggggtgtg ttggtgatgg gaccactcca tcatctctt
2301 tgaatcacatg aagcatggag accataacaa gtctctcagg gcccatgggc cagatgccat gatcctgtg gatggacago cagctcaggg caagggggag
2401 ctagggtctc tcaagatgct ccactcgcgc agtcagatag ctccggcat ggtgtactga tctcagggag totacagtac tgattactac aggggtggag gacacacat
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3701 ggtaactatc gtctttagtc caaccggta agacacgact tatcgccact ggcagcagcc actggttaaca ggattagcag agcgaggtat gtaggcggtg
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## > RDC2925 Translated Insert Sequence

```

1   mdvslcpakc sfwrifllgs vldyvgsvl acpancvcsk teincrrpdd gnlfpllegq dsgnsngnas initdisrni tsihienwrg lhtlnavdme
101  lytqlgklti knsgrlniqp rafaknphlr yinlssnrlt tlswlqfqlt slrelrlcqn ffncscdirw mqlwqeggea rldsqsllyci sadgsqplpf
201  rmnisgcdlp eisvshvnlc vregdnavit cngsgsplpd vdwiwtglqs intqtnlnw tnvhainltl vntsedngf tlctciaenvv gmsnasvalt
301  vyypprvvsl vepevrlehc iefvvrnpt ptlhwlyngq plreskiihm dyqgegeyse gollfnkpth ynnngnytlia knalgtangt inghflkepf
401  pestdfdfde sdasptppit vthkpeedtf gvsiavglaa facvllvvlf iminkygrrs kfgmkgpvav isgeedsasp lhhinhgitt pssldagpdt
501  vvimgrtripv ienpyfyrrg hnchkpdyv qhikrrdivl krelgegafg kvflaeycyl sptkdkmlva vkalkdptla arkdfqreae lltlnlqhehi
601  vkfygvcgdg dplimvfeym khgdlnkflr ahgpdamilv dgqprqakge lgslqgmhla sqiasgmvy l asqhfvrhrl atrnclvgan llvkigdfgm
701  srdvystdyv rvvghtmlpi rwmppesimy rkfttesdvw sfgvilweif tygkqpwfql snteviecit qgrvlerprv cpkevydvml gcwqrepqqr
801  lnikeykil halgkatpiy ldlilg

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