

Product datasheet for **RR208392**

Trak1 (NM_001134565) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trak1 (NM_001134565) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trak1
Synonyms:	OIP106; RGD1307844
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RR208392 representing NM_001134565
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCATTGGCGATTAGCTCAGGCAGCCCTCCAGGGCCCAACCTCTGCCGGACTCGACCACACTGG
 CTGGGACAAACTCCTGTGACGTGTGCAACAGCACCAACCTTCCAGAAGTGGAGATCATTAGCCTGCTGGA
 GGAGCAGCTGCCCACTACAAGCTAAGAGCGGACACCATCTATGGTTATGACCACGATGACTGGCTGCAC
 ACGCCCTCATCTCCCCAGATGCCAACATCGACCTCACAACCGAGCAGATCGAAGAGACGCTGAAGTACT
 TCCTTCTATGTGCCGAAAGAGTTGGCCAGATGACTAAGACATAACAATGACATTGATGCTGCACAAGGCT
 TCTTGAGGAGAAAGAGCGGGATTTGGAGCTGGCTGCGAGGATCGGCCAGTCATTGTTGAAGAAGAACAAG
 ACCCTAACTGAGAGGAACGAACCTGCTGGAAGAGCAGGTGGAGCACATCCGGAAGAGGTGTCTCAGCTCC
 GCCATGAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTACACCAGTCCCGCGGAGGAGAGTGAGCTGA
 GTCTGTCTGCTCAACCCGCTGAAGAGGAACGAGTCATCTCCTCCGTCAGAATTACTTCCACCTGGAC
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 AGACGGAGACCATCACCTATGAGGAGAAGGAGCAGCAGCTGGTGAACGACTGTGTGAAGGAGCTGAGGGA
 TGCTAACGTCCAGATTGCGAGCATCTCTGAGGAGCTGGCCAAGAAGACGGAAGATGCCGCCGCCAGCAG
 GAGGAGATCACGCACCTGCTGTGCAAAATCGTGGACTTGCAAGAAGGCGAAATCCTGTGCGGTGGAAA
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 AACAGACGATGCCACATCCCGCGCTACCACCTCCCTGGGCTGTTCCCATGGACTCCTTGGCTGCCG
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 CACCGAGAGCATCATGTCCCTGGGCACACACTCACGCTTCTCCGAGTTCACGGGCTTCTCCGGCATGTCC
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 GGTGACCACATTTCTCTGGCGGGCTAGCTACCTCCACAACAATTCAGCACATGGAGACCTCAGCGCACC
 ACCCTGGGAAGTGCATGTCACAGACCAACTCGACTTTCACCTTTACCACCTGCCGCATCCTGCACCCCTC
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 AGCGGCTGTGTACGACCCCAAGTGGGACAGAGCCGGCAGGGGCTCCCTCCTCACTTTATACCCCT
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 TCGAGTTCAAGTGCACGAGCCCTCCCTACAACAATTCCTGGCTTCAAGCCTGCCAGCTCCATCCTGAG
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 GGGTCCAGCGTGCAGATGAGGGCTCTGTAATCCTCACCTCTGGCATCTAATGGGTGCTAAGCTCCCCA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208392 representing NM_001134565
 Red=Cloning site Green=Tags(s)

MALAIQLRQPSRAQPLPLGLDHTLAGTNSCDVCNSTNLPEVEIISLLEEQLPHYKLADTIYGYDHDWLH
 TPLISPDANIDL TTEQIEETLKYFLLCAERVGMKTYNDIDAVTRLLEEKERDLELAARIGQSLKKNK
 TLTERNELLEEQVEHIREEVSQLRHEL SMKDELLQFYTSAAEESEPEVCSTPLKRNESSSVQNYFHLD
 SLQKLLKDL EEENVLRSEACQLK TETIT YEEKEQQLVNDQCVKELRDANVQIASI SEELAKKTED AARQQ
 EEITHLLSQIVDLQKKAKSCAVENEELVQHLGAAKDAQRLTAELRELEDKYAECMEMLHEAQEELKNLR
 NKTMPTRSRYHSLGLFPMDSLAAEIEGTRKELQLEEPSDITHQKRVFETVRNVNQVVKQRSLTPSPM
 NIPGSNQSSAMNSLLSSCVSTPRSSFYGSVDVSHVLDNKTNSILLETEAADLGNEEHKPKGTPGTPGSH
 DLETALRRLSLRRENYLSERRFFEEEQERKLRELAEKGELHSGSLTPTESIMSLGTHSRFSEFTGFSGMS
 FSSRSYLPEKLQIVKPLEGSATLHHWQQLAQPHLGGILDPRPGVVTGKFRITLDVDLDEVYCLNDFEEDT
 GDHISLAGLATSTTIQHMETSAHHPGKCMSQTNSTFTFTTCRILHPSDELTRVTPSLNSAPAPSCSSTSH
 LKSTPVATPCTPRRLSLAESFTNVRESTTMTSTSLGLVLLKERGISAAVYDPQSWDRAGRGSLLHSYTP
 RMAVIPSTPPNSPMQTPSAPPSFEFKCTSPYNNFLASKPASSILREVREKKHVRSSSESQTDVSVSNLN
 LVDKVRRFGVARVNSGRAHIPTLTEDQGPLLCGPTGPAHALVPGLVPEGLPLGCPGIRNRNSFPTM
 GSSVQMRAPVILTSGILMGAKLPKQTSLR

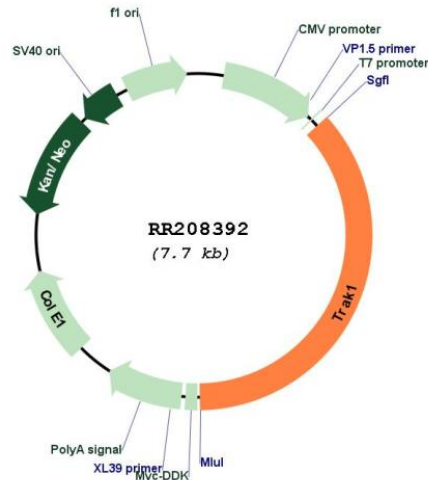
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001134565

ORF Size: 2817 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001134565.1](#), [NP_001128037.1](#)

RefSeq Size: 4788 bp

RefSeq ORF: 2820 bp

Locus ID: 316085

Cytogenetics: 8q32

MW: 104.6 kDa