

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

pRc/CMV HA TrkB-T1

RRID:Addgene_39980

Type: Plasmid

Proper Citation

RRID:Addgene_39980

Plasmid Information

URL: <http://www.addgene.org/39980>

Proper Citation: RRID:Addgene_39980

Insert Name: TrkB.T1

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:9927421](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5500; Vector Backbone:pRC/CMV AC7 vector, a derivative of the pRC/CMV vector; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: The T1 isoform of trkB was cloned from a pCMV-5 trkB.T1 construct using HindIII and XbaI to fuse it to the HA-tagged N-terminus of trkB in the vector pB-KS followed by subcloning into pRC/CMV AC7 with NheI and NotI. See Middlemas et al (Mol Cell Biol. 1991 Jan;11(1):143-53.; <https://www.ncbi.nlm.nih.gov/pubmed?term=1846020>) to learn more about the TrkB.T1 variant. Please note that the endogenous signal sequence of TrkB-T1 was replaced by the BM40 signal peptide sequence (MRAWIFFLLCLAGRALAAPLA). When compared to translated sequences for GenBank ID M55292.1 or NM_001163168.1, the TrkB-T1 protein sequence starts at amino acid #32

Plasmid Name: pRc/CMV HA TrkB-T1

Relevant Mutation: TrkB.T1 variant; endogenous signal sequence was replaced with BM40 and HA tag

Record Creation Time: 20220422T222208+0000

Record Last Update: 20260815T081432+0000

Ratings and Alerts

No rating or validation information has been found for pRc/CMV HA TrkB-T1.

No alerts have been found for pRc/CMV HA TrkB-T1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Torres-Cruz FM, et al. (2019) NT-4/5 antagonizes the BDNF modulation of corticostriatal transmission: Role of the TrkB.T1 receptor. CNS neuroscience & therapeutics, 25(5), 621.

Torres-Cruz FM, et al. (2019) Do BDNF and NT-4/5 exert synergistic or occlusive effects on corticostriatal transmission in a male mouse model of Huntington's disease? Journal of neuroscience research, 97(12), 1665.