

Product datasheet for **MC204576**

Dtnbp1 (NM_025772) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtnbp1 (NM_025772) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dtnbp1
Synonyms:	5430437B18Rik; AW048963; Bloc1s8; dysbindin; sdy
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC018350

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GCCGGGGAGGCTGCGGGCGGGCGGGCGCGGTGAAGCGAGAGCCGACGCGGGGGCGAGGGGACGCCGAC
GGCGTCCGAGGGCGCGGTGGCGGAGGCCCTGAGGGAGGGGACCGGATGCTGGAGACCTGCGCGAGCGGC
TGCTGAGCGTACAGCAGGATTTACCTCCGGGCTGAAGACTTTAAGTGATAAGTCAAGAGAAGCAAAGT
GAAAGGCAAACCCAGGACTGCTCCACGCTTACCGAAGTACTCTGTGGACTAGAATTACTTAGCAGGTAT
GAGGATGCGTGGGCTGCACTTACAGAAGAGCCAAGGAGTGTGCAGACGCTGGCGAGCTGGTGGACAGCG
AGGTGGTCATGCTGTCTGCCACTGGGAGAAGAAGAGGACCAGCCTGAACGAGCTGCAGGGGCGAGCTGCA
GCAGCTGCCCCGCTCTCCTGCAGGACTTGGAGTCTCTGATGGCAAGCCTGGCTCATTTAGAGACAAGTTTT
GAAGAGGTAGAGAACCATTTGCTGCACCTGGAGGACTTGTGTGGCAGTGTGAGTTAGAAAGACACAAGC
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ACTCGATACAGAGCACACAGAAAGCCCTGGAATGGAGCACACCCAGCAACTGAAGCTGAAGGAGCGG
CAGAAGTTCTTCGAGGAAGCCTTCCAGCAGGACATGGAACAGTACCTGTCCACGGGCTACCTGCAGATCG
CAGAGAGGCGAGAGCCTATGGGCAGCATGTCCATGGAAGTGAATGTGGACGTGCTGGAGCAGATGGA
CCTGATGGACATCTCAGACCAGGAGGCTCTCGATGCTTCTCCTGAACTCCGGCGGAGAGGACAACATTGTG
ATGTCCCCTGGTGTGGAGATGGAATCCAACCCCAATCAGAATGAAATGAGTCTTCAGATTCAAAGTCCCT
CAGAATCAGCATCCAGCCACCTGCCTCACCTCTGCCTGCACTGACCTGGACACTGCTGATGCCCCCT
CATCCAGTCTGATGAGGAGGAGGTACAGGTGGACACGGCCTTGGTCACATTACACACTGACAGAAAGTCC
ACCCAGGTGTCAGTGTGACAGTGACCAGTGTGACTCAACTCAGGACATTTAAGTGACTTGTGACGCTGT
GCGCAGAATCCTCCTGCAAAGCCAGGTGCTTAGAGGTTTTCAATTTTACACACTTGCTAATGGGATGTAA
GAACCATTAGAGAAGCGCTCACAAATAAAGCTTATGGAATAAAAAAAAAAAAAAAA
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Restriction Sites:	RsrII-NotI
ACCN:	NM_025772
Insert Size:	1059 bp



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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).
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:	BC018350 , AAH18350
RefSeq Size:	1314 bp
RefSeq ORF:	1059 bp
Locus ID:	94245
UniProt ID:	Q91WZ8
Cytogenetics:	13 21.73 cM
Gene Summary:	Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension. Associates with the BLOC-2 complex to facilitate the transport of TYRP1 independent of AP-3 function. Plays a role in synaptic vesicle trafficking and in neurotransmitter release. Plays a role in the regulation of cell surface exposure of DRD2. May play a role in actin cytoskeleton reorganization and neurite outgrowth. May modulate MAPK8 phosphorylation. Appears to promote neuronal transmission and viability through regulating the expression of SNAP25 and SYN1, modulating PI3-kinase-Akt signaling and influencing glutamatergic release. Regulates the expression of SYN1 through binding to its promoter. Modulates prefrontal cortical activity via the dopamine/D2 pathway.[UniProtKB/Swiss-Prot Function]