

Product datasheet for **RC223247**

Dysbindin (DTNBP1) (NM_183040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dysbindin (DTNBP1) (NM_183040) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dysbindin
Synonyms:	BLOC1S8; DBND; HPS7; My031; SDY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223247 representing NM_183040 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGAGACCCTTCGCGAGCGGCTGCTGAGCGTGCAGCAGGATTTACCTCCGGGCTGAAGACTTTAA
GTGACAAGTCAAGAGAAGCAAAGTGAAAAGCAAACCCAGGACTGTTCCATTTTTGCCAAAGTACTCTGC
TGGATTAGAATTACTTAGCAGGTATGAGGATACATGGGCTGCACTTCACAGAAGAGCCAAAGACTGTGCA
AGTGCTGGAGAGCTGGTGGATAGCGAGGTGGTCATGCTTTCTGCGCACTGGGAGAAGAAAAGACAAGCC
TCGTGGAGCTGCAAGAGCAGCTCCAGCAGCTCCAGCTTTAATCGCAGACTTAGAATCCATGACAGCAAA
TCTGACTCATTTAGAGGCGAGTTTTGAGGAGGTAGAGAACAACCTGCTGCATCTGGAAGACTTATGTGGG
CAGTGTGAATTAGAAAGATGCAAACATATGCAGTCCCAGCAACTGGAGAATTACAAGAAAAATAAGAGGA
AGGAACCTGAAACCTTCAAAGCTGAACTAGATGCAGAGCACGCCAGAAAGGTCCTGGAAATGGAGCACAC
CCAGCAAATGAAGCTGAAGGAGCGGCAGAAAGTTTTTTGAGGAAGCCTTCCAGCAGGACATGGAGCAGTAC
CTGTCCACTGGCTACCTGCAGATTGCAGAGCGGCAGAGCCCATAGGCAGCATGTCATCCATGGAAGTGA
ACGTGGACATGCTGGAGCAGATGGACCTGATGGACATATCGGACCAGGAGGCCCTGGACGCTTCTCTGAA
CTCTGGAGGAGAAGAGAACAACACTGTGCTGTCCCCGCCTTAGGTAGGGTTGACAAACTGCATTAGCTGAA
CCAGGGCAGTATCGATGCCACTCCCCTCAAAGGTGAGACGTGAGAACCATCTGCCAGTCACTTACGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC223247 representing NM_183040
Red=Cloning site Green=Tags(s)

MLETLRERLLSVQQDFTSGLKTLSDKSREAKVKSKPRTVPFLPKYSAGLELLSRYEDTWAALHRRAKDCA
 SAGELVDSEVVMLSAHWEKKKTSLVELQEQLQLPALIADLESMTANLTHLEASFEEVENLLHLEDLCG
 QCELERCKHMQSQQLENYKKNRKELETFKAE LDAEHAQK VLEMEHTQQMKLKERQKFFEEAFQQDMEQY
 LSTGYLQIAERREPIGSMSSMEVNVDMLEQMDLMDISDQEALDVFLNSGGEENTVLSPALGRVDKLALAE
 PGQYRCHSPPKVRRRENHLPVTYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183040

ORF Size: 909 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_183040.2](#), [NP_898861.1](#)

RefSeq Size: 1949 bp

RefSeq ORF: 912 bp

Locus ID: 84062

UniProt ID: [Q96EV8](#)

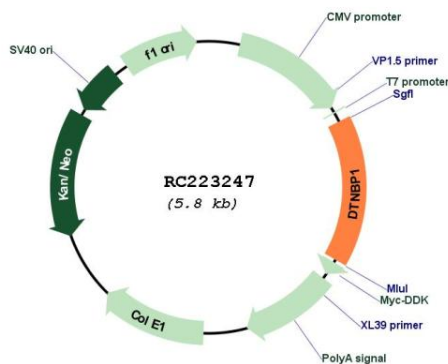
Cytogenetics: 6p22.3

Protein Families: Druggable Genome

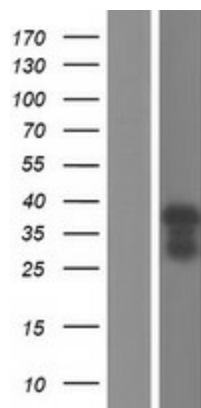
MW: 34.7 kDa

Gene Summary: This gene encodes a protein that may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. A similar protein in mouse is a component of a protein complex termed biogenesis of lysosome-related organelles complex 1 (BLOC-1), and binds to alpha- and beta-dystrobrevins, which are components of the dystrophin-associated protein complex (DPC). Mutations in this gene are associated with Hermansky-Pudlak syndrome type 7. This gene may also be associated with schizophrenia. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223247



Western blot validation of overexpression lysate (Cat# [LY405212]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223247 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).