

Product datasheet for **RG233604**

Dysbindin (DTNBP1) (NM_001271667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dysbindin (DTNBP1) (NM_001271667) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dysbindin
Synonyms:	BLOC1S8; DBND; HPS7; My031; SDY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233604 representing NM_001271667 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTCTGCGCACTGGGAGAAGAAAAAGACAAGCCTCGTGGAGCTGCAAGAGCAGCTCCAGCAGCTCC
CAGCTTTAATCGCAGACTTAGAATCCATGACAGCAAATCTGACTCATTTAGAGGCGAGTTTTGAGGAGGT
AGAGAACAACCTGCTGCATCTGGAAGACTTATGTGGCAGTGTGAATTAGAAAGATGCAAACATATGCAG
TCCCAGCAACTGGAGAATTACAAGAAAAATAAGAGGAAGGAAGTGAACCTTCAAAGCTGAACTAGATG
CAGAGCACGCCAGAGGTCCTGGAATGGAGCACACCCAGCAAATGAAGCTGAAGGAGCGGCAGAAAGTT
TTTTGAGGAAGCCTTCCAGCAGGACATGGAGCAGTACCTGTCCACTGGCTACCTGCAGATTGCAGAGCGG
CGAGAGCCCATAGGCAGCATGTCATCCATGGAAGTGAACGTGGACATGCTGGAGCAGATGGACCTGATGG
ACATATCGGACCAGGAGGCCCTGGACGTCTTCTGAACTCTGGAGGAGAAGAGAACACTGTGCTGTCCCC
CGCCTTAGGGCCTGAATCCAGTACCTGTGAGAATGAGATTACCCTCCAGGTTCCAAATCCCTCAGAATTA
AGAGCCAAGCCACCTTCTTCTTCTCCACTGCACCGACTCGGCCACCCGGGACATCAGTGAGGGTGGGG
AGTCCCCCGTTGTTTCAGTCCGATGAGGAGGAAGTTCAGGTGGACACTGCCCTGGCCACATCACACTGA
CAGAGAGGCCACTCCGGATGGTGGTGGAGACAGCGACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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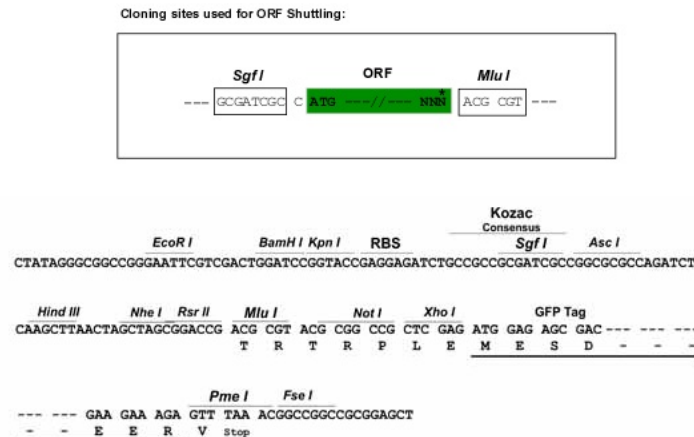
Protein Sequence: >RG233604 representing NM_001271667
Red=Cloning site Green=Tags(s)

MLSAHWEKKKTSLVLEQLQQLPALIADLESMTANLTHLEASFEEVENLLHLEDLCGQCELERCKHMQ
 SQQLENYKKNRKELETFKAEFDAEHAQKVLMEHTQQMKLKERQKFEEAFQQDMEQYLSTGYLQIAER
 REPIGSMSSMEVNVDMLEQMDLMDISDQEALDVFLNSGGEENTVLSPALGPESSTCQNEITLQVNPSEL
 RAKPPSSSTCTDSATRDISEGGEVQVQSDDEEEVQVDTALATSHTDREATPDGGEDSDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271667

ORF Size: 810 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_001271667.1](#), [NP_001258596.1](#)

RefSeq Size: 1469 bp

RefSeq ORF: 813 bp

Locus ID: 84062

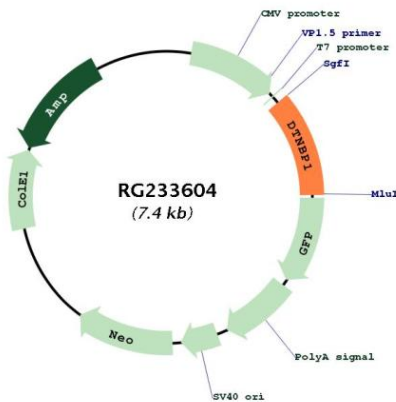
UniProt ID: [Q96EV8](#)

Cytogenetics: 6p22.3

Protein Families: Druggable Genome

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 RG233604