

## Product datasheet for **RG223247**

### 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:	TurboGFP
Symbol:	DTNBP1
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:	>RG223247 representing NM_183040 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGAGACCCTTCGCGAGCGGCTGCTGAGCGTGCAGCAGGATTTACCTCCGGGCTGAAGACTTTAA  
GTGACAAGTCAAGAGAAGCAAAGTAAAAGCAAACCCAGGACTGTTCCATTTTTGCCAAAGTACTCTGC  
TGGATTAGAATTACTTAGCAGGTATGAGGATACATGGGCTGCACTTCACAGAAGAGCCAAAGACTGTGCA  
AGTGCTGGAGAGCTGGTGGATAGCGAGGTGGTCATGCTTTCTGCGCACTGGGAGAAGAAAAGACAAGCC  
TCGTGGAGCTGCAAGAGCAGCTCCAGCAGCTCCAGCTTTAATCGCAGACTTAGAATCCATGACAGCAAA  
TCTGACTCATTTAGAGGCGAGTTTTGAGGAGGTAGAGAACAACCTGCTGCATCTGGAAGACTTATGTGGG  
CAGTGTGAATTAGAAAGATGCAAACATATGCAGTCCCAGCAACTGGAGAATTACAAGAAAAATAAGAGGA  
AGGAACCTGAAACCTTCAAAGCTGAACTAGATGCAGAGCACGCCAGAAAGGTCCTGGAAATGGAGCACAC  
CCAGCAAATGAAGCTGAAGGAGCGGCAGAAAGTTTTTGAGGAAGCCTTCCAGCAGGACATGGAGCAGTAC  
CTGTCCACTGGCTACCTGCAGATTGCAGAGCGGCAGAGCCCATAGGCAGCATGTCATCCATGGAAGTGA  
ACGTGGACATGCTGGAGCAGATGGACCTGATGGACATATCGGACCAGGAGGCCCTGGACGTCTTCTGAA  
CTCTGGAGGAGAAGAGAACAACACTGTGCTGTCCCCGCCTTAGGTAGGGTTGACAAACTGCATTAGCTGAA  
CCAGGGCAGTATCGATGCCACTCCCCTCAAAGGTGAGACGTGAGAACCATCTGCCAGTCACTTACGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223247 representing NM\_183040  
 Red=Cloning site Green=Tags(s)

MLETLRERLLSVQDFTSGLKTLSDKSREAKVKSKPRTVPFLPKYSAGLELLSRYEDTWAALHRRRAKDCA  
 SAGELVDSEVVMLSAHWEKKKTSLVELQEQLQLPALIADLESMTANLTHLEASFEEVENLLHLEDLCG  
 QCELERCKHMQSQQLENYKKNRKELETFKAELDAEHAQKVLMEHTQMKLKERQKFEEAFQQDMEQY  
 LSTGYLQIAERREPIGSMSSMEVNVDMLEQMDLMDISDQEALDVFLNSGGEENTVLSPALGRVDKLALAE  
 PGQYRCHSPPKVRRRENHLPVTYA

TRTRPLE - GFP Tag - V

Restriction Sites:

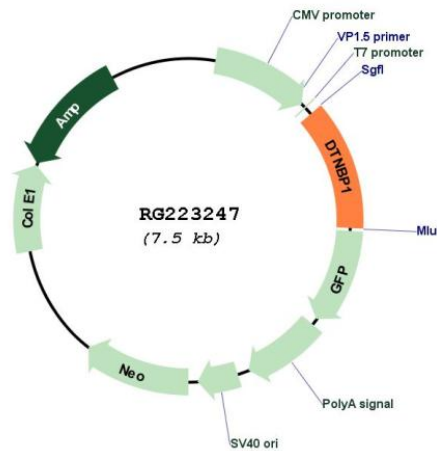
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_183040

ORF Size: 909 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_183040.2</a> , <a href="#">NP_898861.1</a>
<b>RefSeq Size:</b>	1949 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	84062
<b>UniProt ID:</b>	<a href="#">Q96EV8</a>
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]