

## Product datasheet for **RG214007**

### Dystonin (DST) (NM\_001723) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystonin (DST) (NM_001723) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dystonin
Synonyms:	BP240; BPA; BPAG1; CATX-15; CATX15; D6S1101; DMH; DT; EBSB2; HSN6; MACF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214007 representing NM_001723 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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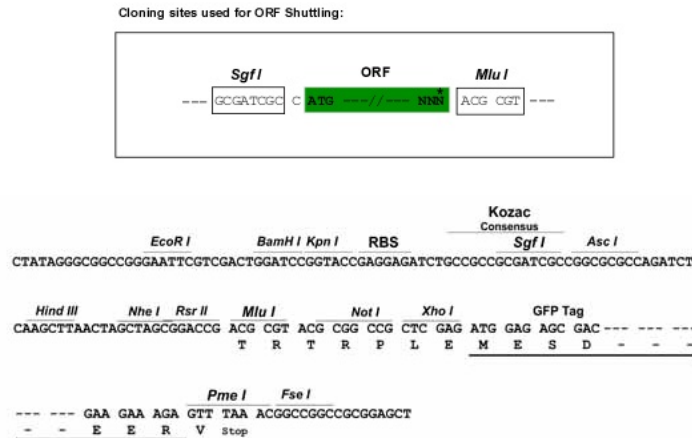
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG214007 representing NM\_001723  
 Red=Cloning site Green=Tags(s)

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 SVICEDK LILAGNALQSDSKRLESGVQFQNEAEIAGYILECENLLRQHVIDVQILIDGKYQYADQLVQRV  
 AKLRDEIMALRNEC SSVYSKGRILTTEQTKLMISGITQSLNSGFAQTLHPSL TSGLTQSLTPSLTSSSMT  
 SGLSSG MTSRLTPSVTPAYTPGFP SGLVPNFSSGVPEPNSLQTLKLMQIRKPLLLKSSLLDQNLTEEEINMK  
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 TKLKDQKSYVRNIICPQTKRKLTYKEALEKADDFHTGLKLEVSEPLMTGISSLYSS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001723

**ORF Size:** 7947 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

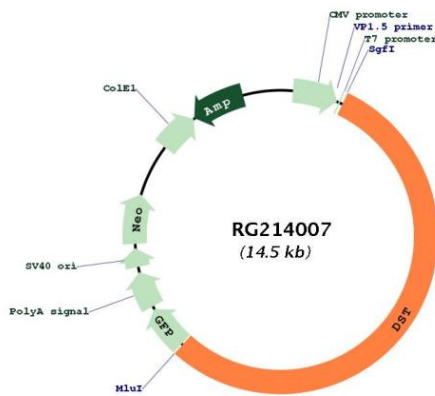
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_001723.6](#)

RefSeq Size: 9006 bp  
 RefSeq ORF: 7950 bp  
 Locus ID: 667  
 UniProt ID: [Q03001](#)  
 Cytogenetics: 6p12.1

**Gene Summary:** This gene encodes a member of the plakin protein family of adhesion junction plaque proteins. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene, but the full-length nature of some variants has not been defined. It has been reported that some isoforms are expressed in neural and muscle tissue, anchoring neural intermediate filaments to the actin cytoskeleton, and some isoforms are expressed in epithelial tissue, anchoring keratin-containing intermediate filaments to hemidesmosomes. Consistent with the expression, mice defective for this gene show skin blistering and neurodegeneration. [provided by RefSeq, Mar 2010]

### Product images:



Circular map for RG214007