

Product datasheet for MR231968

Dst (NM_010081) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dst (NM_010081) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dst
Synonyms:	2310001O04Rik; A830042E19Rik; ah; athetoid; AW554249; BP230; Bpag; Bpag1; BPAG1-n; dt; Macf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MR231968 representing NM_010081 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>MR231968 representing NM_010081
 Red=Cloning site Green=Tags(s)

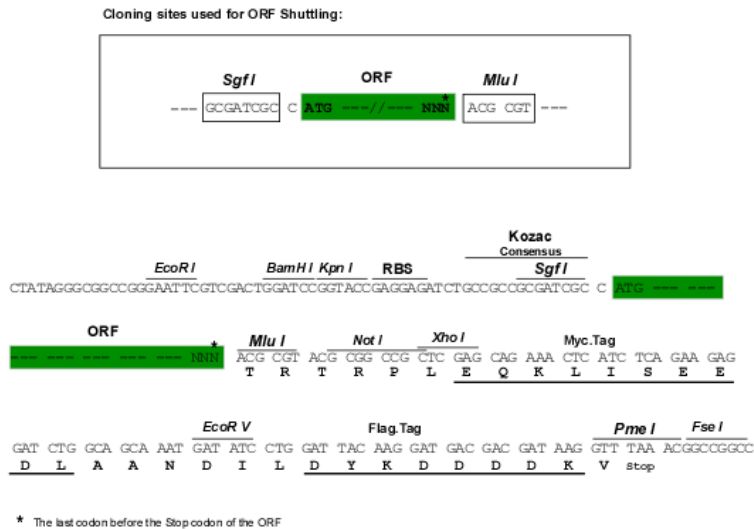
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Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_010081

ORF Size: 7917 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 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:	<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:	<u>NM_010081.3</u>
RefSeq Size:	8788 bp
RefSeq ORF:	7920 bp
Locus ID:	13518
UniProt ID:	<u>Q91ZU6</u>
Cytogenetics:	1 12.91 cM
MW:	305.2 kDa
Gene Summary:	Cytoskeletal linker protein. Acts as an integrator of intermediate filaments, actin and microtubule cytoskeleton networks. Required for anchoring either intermediate filaments to the actin cytoskeleton in neural and muscle cells or keratin-containing intermediate filaments to hemidesmosomes in epithelial cells. The proteins may self-aggregate to form filaments or a two-dimensional mesh. Regulates the organization and stability of the microtubule network of sensory neurons to allow axonal transport. Mediates docking of the dynein/dynactin motor complex to vesicle cargos for retrograde axonal transport through its interaction with TMEM108 and DCTN1.[UniProtKB/Swiss-Prot Function]