

Product datasheet for MC229757

Dst (NM_010081) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dst (NM_010081) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dst
Synonyms:	2310001O04Rik; A830042E19Rik; ah; athetoid; AW554249; BP230; Bpag; Bpag1; BPAG1-n; dt; Macf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229757 representing NM_010081 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGAGTAGTACAGTTACCGTAGCAGTACTCTGTGTTAGTAACACCACCAGCACTCGGACTA
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 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010081
Insert Size: 7920 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_010081.2, NP_034211.2</u>
RefSeq Size:	8788 bp
RefSeq ORF:	7920 bp
Locus ID:	13518
UniProt ID:	<u>Q91ZU6</u>
Cytogenetics:	1 12.91 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4, also known as e) has multiple differences in the coding region and UTRs compared to variant 1. This variant encodes isoform 4 (also known as e), which has distinct N- and C-termini and is significantly shorter than isoform 1. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>