

Product datasheet for MC218030

Dusp7 (BC010207) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Dusp7 (BC010207) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Dusp7
 Synonyms: MKPX, MKP-X, PYST2
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC010207
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCGCCGCTGCGCAAAGGCAACCTGCCATCCGCTCCATCATTCCAACCATGCCGACAAGGAGC
 GCTTCGCCACGCGCTGCAAGGGCGCCACCGTGTCTACGACGAGGCCACGGCGGAGTGGCAGCCGA
 GCCCGGCCCGCCCGCTCCGTTCTCGGCCTGCTCCTGCAGAAGCTGCGAGACGACGGCTGCCAGGCCTAC
 TACCTCCAAGGTGGTTTCAACAAGTTCCAGACGGAATACTCTGAGCATTGTGAGACTAACGTGGACAGCT
 CGTCTCCCCGAGTGGCTCGCCACCCACCTCCGTGCTGGGCTGGGGGGCCTGCGCATCAGCTCTGACTG
 CTCAGACGGCGAGTCGGACCGAGAGCTGCCAGCAGTGCCACTGAGTCGGATGGCAGCCCTGTACCATCC
 AGCCAGCCGGCCTTCCGGTCCAGATCCTGCCCTACCTACCTCGGCTGTGCCAAGGACTTACCAACC
 TGGATGTACTTGGCAAATACGGCATCAAATACATCCTCAACGTCACACCCAACCTGCCAACGCCTTTGA
 GCACGGTGGTGTGAGTTCACCTACAAGCAAATCCCCATCTCTGACCACTGGAGCCAGAACCTCTCTCAGTTC
 TTCCCCGAGGCCATCAGTTCATTGATGAAGCCGCTCCAAGAAGTGTGGTGTCTTGGTGCACTGCCTAG
 CAGGCATCAGCCGTTAGTGACAGTACTGTAGCCTACCTGAGCAGAGTGAACCTGTCCCTCAATGA
 TGCCATGACTTCGTCAAGAGGAAAAAGTCTAACATCTCGCCAACTTCAACTTCATGGGGCAGCTGCTG
 GACTTTGAGCGGACGCTGGGGCTCAGCAGCCATGCGACAACCACGCACCCAGTGAAGCAGCTCTACTTCT
 CCACGCCACCAACCATAACCTGTTCCCGATCAACACGCTCGAGTCCACGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC010207
 Insert Size: 963 bp



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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).
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>BC010207</u> , <u>AAH10207</u>
RefSeq Size:	2584 bp
RefSeq ORF:	962 bp
Locus ID:	235584
Cytogenetics:	9 F1
Gene Summary:	Dual specificity protein phosphatase (PubMed:27783954). Shows high activity towards MAPK1/ERK2 (By similarity). Also has lower activity towards MAPK14 and MAPK8 (By similarity). In arrested oocytes, plays a role in meiotic resumption (PubMed:27783954). Promotes nuclear envelope breakdown and activation of the CDK1/Cyclin-B complex in oocytes, probably by dephosphorylating and inactivating the conventional protein kinase C (cPKC) isozyme PRKCB (PubMed:27783954). May also inactivate PRKCA and/or PRKCG (PubMed:27783954). Also important in oocytes for normal chromosome alignment on the metaphase plate and progression to anaphase, where it might regulate activity of the spindle-assembly checkpoint (SAC) complex (PubMed:27783954).[UniProtKB/Swiss-Prot Function]