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Product datasheet for MC225283

Ros1 (NM_011282) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ros1 (NM_011282) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ros1
Synonyms:	c-ros; Ros-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225283 representing NM_011282 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAGAACATCTGCTGGCTCACCCTGAAACTTGTGAAGTTTGTGGTCCTTGGGTGCATCATATGGATTT CTGTGGCACAGAGTACAGTTCTGAGCAGCTGCCTAACGTCCTGTGTAACTAACCTGGGCAGGCAGCTTGA CAGTGGCACACGGTACAATCTGAGTGAGGCGTGCATCCATGGATGTCAGTTTTGGAACTCTGTAGATCAG GAAACGTGTGCTTTAAAGTGTAATGACACCTACGCCACCATTTGTGAGAGGGAGTCCTGTGAGGTCGGCT GCAGCAATGCGGAGGGTAGCTACGAAGAGGAAGTGCTGGAAAGCACAGAACTTCCTACAGCACCCTTTGC ATCTTCCATTGGAAGTCATGGTGTGACATTACGCTGGAACCCTGCCAACATCTCTGGAGTCAAATACATA ATTCAATGGAAATATGCCCAACTTCCAGGAAGCTGGACTTTCACGGAGACCGTGTCCAAGCTCTCATACA CGGTGGAACCCCTGCATCCATTCACAGAATATATTTTTCGAGTGGTTTGGATCTTCACAGCCCAACTGCA TCTTTATTCCCCACCAAGTCCCAGTTACAGGACTCATCCTTATGGAGTTCCAGAAACTGCACCTCTCATC CTGAACATGGAAAGCTGGAGCCCTGATACTGTGGAGGTCAGCTGGGCTCCACCTCATTTCCCAGGTGGAC CTATTTTGGGTTATAATTTAAGGCTCATCAGTAAAAATCAAAAATTAGATTCAGGGACACAGAGAACCAG TTTCCAGTTTTATTCTACTCTACCAAACACCACCTACAGGTTTTCTATCGCAGCAGTCAATGAAGTTGGT GAGGGGCCAGAAGCAGAATCTACAGTTACCACTCCATCCCCATCAGTTCAAGAAGAAGAACAATGGCTCT TTTTATCCAGAAAAACTTCTCTAAGAAAGAGGTCTTTGAAGTACTTAGTAGATGAAGCACATTGCCTTTG GTCAGATGCTATACACCATAATATTACAGGAATATCAGTCTATGCTCAGCAGCAAGTGGTTTATTTTTCA GAAGGAACTGTCATCTGGATGAAGGGGGCTGCCAACATGTCTGATGTGTCTGACCTGAGAATTTTTTACC AAGGCTCAGGTCTAGTGTCTTCTATCTCCATAGACTGGCTGTACCAAAGGATGTATTTCATCATGGATAA ACTGGTATATGTCTGTGAATTAAAGAATTGCTCAAATTTAGAGGAAATCACTCCCTTCTCTCTTATTGCA CCTCAGAAAGTTGTGGTTGACTCCTACAATGGGTACCTCTTTTATCTCCTGAGAGACGGCATCTACAGAG TCAATCTCCCTTTGCCATCTGGCAGGGACACCAAAGCTGTGCGTATTGTGGAGAGTGGCACATTAAAGGA CTTTGCAGTAAAGCCCCAATCCAAGCGAATCATTTACTTCAATGACACCATGCAACTCTTCATGTCAACG TTTCTGGATGGCTCTGCCTTCCACCGGGTCCTGCCTTGGGTCCCCCTTGTGACTGTGAAGAGCTTTGCTT

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011282

Insert Size: 7023 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).

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_011282.2, NP_035412.2
RefSeq Size:	7401 bp
RefSeq ORF:	7023 bp
Locus ID:	19886
UniProt ID:	Q78DX7
Cytogenetics:	10 26.18 cM
Gene Summary:	Orphan receptor tyrosine kinase (RTK) that plays a role in epithelial cell differentiation and regionalization of the proximal epididymal epithelium. May activate several downstream signaling pathways related to cell differentiation, proliferation, growth and survival including the PI3 kinase-mTOR signaling pathway. Mediates the phosphorylation of PTPN11, an activator of this pathway. May also phosphorylate and activate the transcription factor STAT3 to control anchorage-independent cell growth. Mediates the phosphorylation and the activation of VAV3, a guanine nucleotide exchange factor regulating cell morphology. May activate other downstream signaling proteins including AKT1, MAPK1, MAPK3, IRS1, and PLCG2.[UniProtKB/Swiss-Prot Function]