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Product datasheet for RN215685

Mxra8 (NM_001007002) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mxra8 (NM_001007002) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mxra8
Synonyms:	1200013a08rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215685 representing NM_001007002 Red=Cloning site Blue=ORF Orange=Stop codon CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC GCCC ATGGAACTGCTATCCCGTGTCTTGTTGTGGAAACTGGTGCTTCTTCAGAGTTCTGCAGTCCTGTCCTCAG GGTCTCCAGGGACCGCAGCAGCCAGCAGCTCTGTGGTGTCTGAGTCTGCGGTGAGCTGGGCAGCCGGAAC TCAGGCGGTGCTACGCTGCCAGAGCCCGCGCATGGTGTGGACCCAAGACCGGCTGCACGATCGCCAGCGC GTGGTCCACTGGGACCTCAGCGGTGGCCCAGGTAGCCAAGGGCGCCGACTTGTGGATATGTACTCGGCCG GGGAACAGCGCGTGTACCAGCCGCGCGATCGCGACCGCCTCCTGCTGTCGCCTTCTGCCTTCCACGACGG CAACTTCTCGCTGCTCATCCGCGCTGTGGAGAGAGGCGACGAAGGGGTGTACACCTGCAATCTGCACCAT CACTACTGCCACCTCTACGAGAGCCTGGCTGTGCGCCTCGAGGTCACTGACGATCCCCTATTAAGTCGCG CATACTGGGACGGAGAGAAGGAAGTGTTGGTGGTGGCCCTCGGCGCACCGGCTCTGATGACTTGCGTGAA CCGTGAGCACTTGTGGACTGACCGCCACTTAGAGGAGGCGCAGCAGGTGGTCCATTGGGACCGACAGCTA CCTGGCGTGCCACATGACCGCGCTGACCGATTGCTTGACCTGTACGCATCCGGCGAGCGCCGAGCCTACG GGCCACCCTTCCTGCGTGATCGCGTGTCGGTGAACACCAACGCTTTTGCACGCGGGGACTTCTCCCTACG CATAGATGACCTGGAGCCGGCTGATGAGGGCATCTATTCCTGCCACCTGCACCACCACTACTGTGGTCTC CATGAGCGCCGAGTCTTCCACCTACGGGTCACGGAGCCTGTTTTTGAGCCACCAGCTCGCGCTTCTCCTG GCAATGGGTCTGGTCACAACAGTGTTCCTAGCCCAGATCCCACCATGGCCCGTGGCCACAGCATCATCAA CGTCATTGTCCCAGAGGACCACACACATTTCTTCCAGCAATTGGGCTATGTGCTGGCCACTCTACTGCTT TTCATCTTGCTGCTCATCACTGTAGTCCTGGCGACACGCCACCGTCACAGTGGAGGATGCAAGACCTCAG ACAGGAAAGCTGGGAAATCAAAGGGGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	AscI-MluI
ACCN:	NM_001007002
Insert Size:	1149 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_001007002.1, NP_001007003.1
RefSeq Size:	2296 bp
RefSeq ORF:	1149 bp
Locus ID:	313770
UniProt ID:	Q5XI43
Cytogenetics:	5q36
Gene Summary:	Transmembrane protein which can modulate activity of various signaling pathways, probably via binding to integrin ITGAV:ITGB3. Mediates heterophilic cell-cell interactions in vitro. Inhibits osteoclastogenesis downstream of TNFSF11/RANKL and CSF1, where it may function by attenuating signaling via integrin ITGB3 and MAP kinase p38. Plays a role in cartilage formation where it promotes proliferation and maturation of growth plate chondrocytes. Stimulates formation of primary cilia in chondrocytes. Enhances expression of genes involved in the hedgehog signaling pathway in chondrocytes, including the hedgehog signaling molecule IHH; may also promote signaling via the PTHLH/PTHrP pathway. Plays a role in angiogenesis where it suppresses migration of endothelial cells and also promotes their apoptosis. Inhibits VEGF-induced activation of AKT and p38 MAP kinase in endothelial cells. Also inhibits VTN (vitronectin)-mediated integrin ITGAV:ITGB3 signaling and activation of PTK2/FAK. May play a role in the maturation and maintenance of the blood-brain barrier. [UniProtKB/Swiss-Prot Function]