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Product datasheet for SC336154

MXRA8 (NM_001282582) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MXRA8 (NM_001282582) Human Untagged Clone

Tag: Tag Free

Symbol: MXRA8

Synonyms: ASP3

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC336154 representing NM_001282582.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCGCTGCCATCCCGAATCCTGCTTTGGAAACTTGTGCTTCTGCAGAGCTCTGCTGTTCTCCTGCAC
TCAGGGTCCTCGGTACCCGCCGCTGCTGGCAGCTCCGTGGTGTCCGAGTCCGCGGTGAGCTGGGAGGCG
GGCGCCCGGGCGGTGCTGCGCTGCCAGAGCCCGCGCATGGTGTGGACCCAGGACCGGCTGCACGACCGC
CAGCGCGTGCTCCACTGGGACCTGCGCGGCCCCGGGGGTGGCCCCGCGCGGCGCCTGCTGGACTTGTAC
TCGGCGGGCGAGCAGCGCGTGTACGAGGCGCGGGACCGCGGCCGCCTGGAGCTCTCGGCCTCGGCCTTC
GACGACGGCAACTTCTCGCTGCTCATCCGCGCGGTGGAGGAGACGGACGCGGGGCTGTACACCTGCAAC
CTGCACCATCACTACTGCCACCTCTACGAGAGCCTGGCCGTCCGCCTGGAGGTCACCGACGGCCCCCCG
GCCACCCCCGCCTACTGGGACGGCGAGAAGGAGGTGCTGGCGGTGGCGCGCGGCGCACCCGCGCTTCTG
ACCTGCGTGAACCGCGGGCACGTGTGGACCGACCGGCACGTGGAGGAGGCTCAACAGGTGGTGCACTGG
GACCGGCAGCCGCCCGGGGTCCCGCACGACCGCGCGGACCGCCTGCTGGACCTCTACGCGTCGGGCGAG
CGCCGCGCCTACGGGCCCCTTTTTCTGCGCGACCGCGTGGCTGTGGGCGCGGATGCCTTTGAGCGCGGT
GACTTCTCACTGCGTATCGAGCCGCTGGAGGTCGCCGACGAGGGCACCTACTCCTGCCACCTGCACCAC
CATTACTGTGGCCTGCACGAACGCCGCGTCTTCCACCTGACGGTCGCCGAACCCCACGCGGAGCCGCCC
CCCCGGGGCTCTCCGGGCAACGGCTCCAGCCACAGCGGCGCCCCAGGCCCAGACCCCACACTGGCGCGC
GGCCACAACGTCATCAATGTCATCGTCCCCGAGAGCCGAGCCCACTTCTTCCAGCAGCTGGGCTACGTG
CTGGCCACGCTGCTGCTCTTCATCCTGCTACTGGTCACTGTCCTCCTGGCCGCCCGCAGGCGCCGCGGA
GGCTACGAATACTCGGACCAGAAGTCGGGAAAGTCAAAGGGGAAGGATGTTAACTTGGCGGAGTTCGCT
GTGGCTGCAGGGGACCAGATGCTTTACAGGAGTGAGGACATCCAGCTAGATTACAAAAACAACATCCTG
AAGGAGAGGGCGGAGCTGGCCCACAGCCCCCTGCCTGCCAAGTACATCGACCTAGACAAAGGGTTCCGG
AAGGAGAACTGCAAATAG

Restriction Sites: SgfI-XhoI

ACCN: NM_001282582

Insert Size: 1329 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:	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_001282582.1
RefSeq Size:	2312 bp
RefSeq ORF:	1329 bp
Locus ID:	54587
UniProt ID:	Q9BRK3
Cytogenetics:	1p36.33
Protein Families:	Transmembrane
MW:	49.1 kDa

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Gene Summary: Transmembrane protein which can modulate activity of various signaling pathways, probably via binding to integrin ITGAV:ITGB3 (PubMed:22492581, PubMed:23386276). Mediates heterophilic cell-cell interactions in vitro (By similarity). Inhibits osteoclastogenesis downstream of TNFSF11/RANKL and CSF1, where it may function by attenuating signaling via integrin ITGB3 and MAP kinase p38 (By similarity). Plays a role in cartilage formation where it promotes proliferation and maturation of growth plate chondrocytes (By similarity). Stimulates formation of primary cilia in chondrocytes (By similarity). 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 (By similarity). Plays a role in angiogenesis where it suppresses migration of endothelial cells and also promotes their apoptosis (PubMed:23386276). Inhibits VEGF-induced activation of AKT and p38 MAP kinase in endothelial cells (PubMed:23386276). Also inhibits VTN (vitronectin)-mediated integrin ITGAV:ITGB3 signaling and activation of PTK2/FAK (PubMed:23386276). May play a role in the maturation and maintenance of the blood-brain barrier (By similarity). [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (5) differs in both UTRs and uses an alternate splice site in the 3' terminal exon compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus compared to isoform 1. Variants 2 and 5 encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and 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.

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