

Product datasheet for **SC123025**

MXRA8 (NM_032348) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MXRA8 (NM_032348) Human Untagged Clone
Tag:	Tag Free
Symbol:	MXRA8
Synonyms:	ASP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_032348 edited
GTGGGACAAAGCCTGGGGCTGGGCGGGGGCCATGGCGCTGCCATCCCGAATCCTGCTTTG
GAAACTTGTGCTTCTGCAGAGCTCTGCTGTTCTCCTGCACTCAGGGTCTCGGTACCCGC
CGCTGCTGGCAGCTCCGTGGTGTCCGAGTCCGCGGTGAGCTGGGAGGCGGGCGCCCGGGC
GGTGTGCGCTGCCAGAGCCCGCATGGTGTGGACCCAGGACCGGTGCACGACCGCCA
GCGCGTGTCCACTGGGACCTGCGCGGCCCGGGGGTGGCCCCGCGCGGCGCCTGCTGGA
CTTGTACTCGGCGGGCGAGCAGCGCTGTACGAGGCGCGGACCGCGGCCGCTGGAGCT
CTCGGCCTCGGCCTTCGACGACGCAACTTCTCGCTGCTCATCCGCGCGGTGGAGGAGAC
GGACGCGGGGCTGTACACCTGCAACCTGCACCATCACTACTGCCACCTCTACGAGAGCCT
GGCCGTCCGCTGGAGGTACCGACGGCCCCCGGCCACCCCGCCTACTGGGACGGCGA
GAAGGAGGTGCTGGCGGTGGCGCGCGGCACCCGCGCTTCTGACCTGCGTGAACCGCGG
GCACGTGTGGACCGACCGGCACGTGGAGGAGGCTCAACAGGTGGTGCCTGGGACCGGCA
GCCGCCCGGGTCCCGCACGACCGCGCGGACCGCCTGCTGGACCTCTACGCGTCGGGCGA
GCGCCGCGCCTACGGGCCCTTTTTCTGCGCGACCGCGTGGCTGTGGGCGCGGATGCCTT
TGAGCGCGGTGACTTCTCACTGCGTATCGAGCCGCTGGAGGTGCGCGACGAGGGACCTA
CTCCTGCCACCTGCACCACTTACTGTGGCCTGCACGAACGCCGCTTCCACCTGAC
GGTCGCGGAACCCACGCGGAGCCGCCCCCGGGGCTCTCCGGGCAACGGCTCCAGCCA
CAGCGGCGCCCCAGGCCAGACCCACACTGGCGCGCGGCCACAACGTCAATGTCAT
CGTCCCCGAGAGCCGAGCCCACTTCTCCAGCAGCTGGGTACGTGCTGGCCACGCTGCT
GCTCTTCATCCTGCTACTGGTCACTGTCTCTCTGGCCGCCCGCAGGCGCCGCGGAGGCTA
CGAATACTCGGACCAGAAGTCGGGAAAGTCAAAGGGGAAGGATGTTAACTTGGCGGAGTT
CGCTGTGGCTGCAGGGGACCAGATGCTTTACAGGAGTGAGGACATCCAGTAGATTACAA
AAACAACATCCTGAAGGAGAGGGCGGAGCTGGCCACAGCCCCCTGCCTGCCAAGTACAT
CGACCTAGACAAAGGGTTCCGGAAGGAGAACTGCAAAATAGGAGAGCCCTGGGCTCCTGGC
TGGGCCAGCAGCTGCACCTCTCCTGTCTGTGCTCCTCGGGGCATCTCCTGATGCTCCGGG
GCTCACCTCCCTCCAGCGGCTGGTCCCGCTTCTGGAATTTGGCCTGGGCGTATGCAG
AGGCCGCTCCACACCCCTCCCCAGGGGCTTGGTGGCAGCATAGCCCCACCCCTGCGG
CCTTTGCTCAGGGTGGCCCTGCCACCCCTGGCACAACCAAAATCCCACTGATGCCAT
CATGCCCTCAGACCTTCTGGGCTCTGCCCGCTGGGGCCTGAAGACATTCTGGAGGAC
ACTCCCATCAGAACCTGGCAGCCCCAAACTGGGGTCAGCCTCAGGGCAGGAGTCCCACT
CCTCCAGGGCTCTGCTCGTCCGGGGCTGGGAGATGTTCTGGAGGAGGACACTCCCATCA
GAACCTGGCAGCCTTGAAGTTGGGGTCAGCCTCGGCAGGAGTCCCACTCCTCCTGGGGTG
CTGCCTGCCACCAAGAGCTCCCCACCTGTACCACCATGTGGGACTCCAGGCACCATCTG
TTCTCCCCAGGGACCTGCTGACTTGAATGCCAGCCCTTGCTCCTCTGTGTTGCTTTGGG
CACCTGGGGCTGCACCCCTGCCCTTCTCTGCCCCATCCCTACCTAGCCTTGCTCTCA
GCCACCTTGATAGTCACTGGGCTCCCTGTGACTTCTGACCCTGACACCCCTCCCTTGGAC
TCTGCCTGGGCTGGAGTCTAGGGCTGGGGCTACATTTGGCTTCTGTACTGGCTGAGGACA
GGGGAGGGAGTGAAGTTGGTTTGGGGTGGCCTGTGTTGCCACTCTCAGCACCCACATTT
GCATCTGCTGGTGGACCTGCCACCATCACAATAAAGTCCCATCTGATTTTAAAAA
AAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032348 unedited <pre> NGGAGGTCAAATATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACNGGGTGG GACAAAGCCTGGGGCTGGGCGGGGGCCATGGCGCTGCCATCCCGAATCCTGCTTTGAAA CTTGCTTCTGCAGAGCTCTGCTGTTCTCCTGCACTCAGGGTCTCGGTACCCGCCGCT GCTGGCAGCTCCGTGGTGTCCGAGTCCGCGGTGAGCTGGGAGGCGGGCGCCGGGCGGTG CTGCGCTGCCAGAGCCCCGCGCATGGTGTGACCCAGGACCGGCTGCACGACCGCCAGCGC GTGCTCCACTGGGACCTGCGCGGCCCGGGGTGGCCCCGCGCGCGCCTGCTGGACTTG TACTCGGCGGGCGAGCAGCGCGTGTACGAGGCGCGGGACCGCGGCCGCTGGAGCTCTCG GCCTCGGCCTTCGACGACGGCAACTTCTCGCTGCTCATCCGCGCGGTGGAGGAGACGGAC GCGGGGTGTACACCTGCAACCTGCACCATCACTACTGCCACCTCTACGAGAGCCTGGCC GTCCGCTGGAGGTACCGACGGCCCCCGGCCACCCCGCCTACTGGGACGGCGAGAAG GAGGTGCTGGCGTGGCGCGGGCGCACCCGCGCTTCTGACCTGCGTGAACCGCGGGCAC GTGTGGACCGACCGGCACGTGGAGGAGGCTCAACAGGTGGTGAACCGCGGGCACCG CCCGGGTCCCGACGACCGCGCGGACCGCCTGCTGGACCTCTACGCGTGGGCGAGCGC CGCGCTACGGGCCCCCTTTTCTGCGCGACCGCGTGGTGTGGGCGCGGATGCCTTTGAG CGCGGTGACTTCTCACTGCGTATCGAGCGCTGGAGGTCGCCGACGAGGCACCTAN </pre>
Restriction Sites:	Please inquire
ACCN:	NM_032348
Insert Size:	2301 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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:	<u>NM_032348.2</u> , <u>NP_115724.1</u>
RefSeq Size:	2290 bp

RefSeq ORF:	1329 bp
Locus ID:	54587
UniProt ID:	Q9BRK3
Cytogenetics:	1p36.33
Protein Families:	Transmembrane
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 (2) differs in both UTRs and uses two alternate splice sites in the 3' coding region 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.