

Product datasheet for **RG200955**

MXRA8 (NM_032348) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MXRA8 (NM_032348) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MXRA8
Synonyms:	ASP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200955 representing NM_032348 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGCCATCCGAATCCTGCTTTGGAACTTGCTTCTGCAGAGCTCTGCTGTTCTCTGCACT
 CAGGGTCTCGGTACCGCCGCTGCTGGCAGCTCCGTGGTGTCCGAGTCCGCGGTGAGCTGGGAGGCGGG
 CGCCCGGGCGGTGCTGCGCTGCCAGAGCCCGCGCATGGTGTGGACCCAGGACCGGCTGCACGACCGCCAG
 CGCGTGTCCACTGGGACCTGCGCGGCCCGGGGTGGCCCCGCGCGGCCCTGCTGGACTTGTAACCTCGG
 CGGGCAGCAGCGGTGTACGAGGCGCGGACCGCGGCCCTGGAGCTCTCGGCCTCGGCCTTCGACGA
 CGGCAACTTCTCGCTGCTCATCCGCGCGGTGGAGGAGACGACGCGGGGCTGTACACCTGCAACCTGCAC
 CATCACTACTGCCACCTCTACGAGAGCCTGGCCGTCCGCCTGGAGGTACCGACGCGCCCCCGGCCACCC
 CCGCCTACTGGGACGGCGAGAAGGAGGTGCTGGCGGTGGCGCGCGGCCGACCCGCGCTTCTGACCTGCGT
 GAACCGCGGGCACGTGTGGACCGACCGGCACGTGGAGGAGGTCAACAGGTGGTGCAGTGGGACCGGCAG
 CCGCCCGGGTCCCGCACGACCGCGCGGACCGCCTGCTGGACCTTACGCGTGGGCGAGCGCCGCGCCT
 ACGGGCCCTTTTTCTGCGCGACCGCGTGGCTGTGGGCGCGGATGCCTTTGAGCGCGGTGACTTCTCACT
 GCGTATCGAGCCGCTGGAGGTGCGCGACGAGGGCACCTACTCTGCCACCTGCACCACTTACTGTGGC
 CTGCACGAACGCCGCTTCCACCTGACGTCGCGCAACCCACGCGGAGCGCCCCCGGGGCTCTC
 CGGGCAACGGCTCCAGCCACAGCGCGGCCAGGCCAGACCCACACTGGCGCGCGGCCACAACGTCA
 CAATGTATCGTCCCGAGAGCCGAGCCCACTTCTCCAGCAGCTGGGCTACGTGCTGGCCACGCTGCTG
 CTCTTCATCCTGCTACTGGTCACTGTCTCTGCGCGCCCGCAGGCGCCGCGGAGGTACGAATACTCGG
 ACCAGAAGTCGGGAAAGTCAAAGGGGAAGGATGTTAACTTGGCGGAGTTCGCTGTGGCTGCAGGGGACCA
 GATGCTTTACAGGAGTGAGGACATCCAGCTAGATTACAAAACAACATCCTGAAGGAGAGGGCGGAGCTG
 GCCACAGCCCCCTGCCTGCCAAGTACATCGACCTAGACAAAGGGTTCGGAAGGAGAACTGCAAA

CTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200955 representing NM_032348
 Red=Cloning site Green=Tags(s)

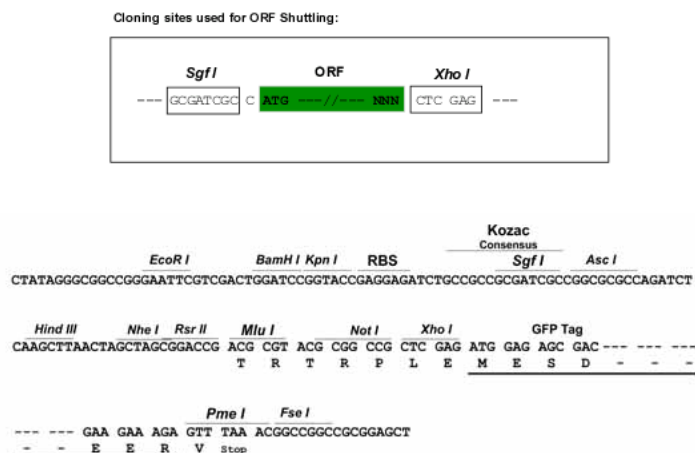
MALPSRILLWKLVLQSSAVLLHSGSSVPAAGSSVSESASVSWEAGARAVLRQCSPRMVWTDQRLHDRQ
RVLHWDLRGPGGPARRLDLYSAGEQRVYEARDRGRLELSASAFDDGNFSLLIRAVEETDAGLYTCNLH
HHYCHLYESLAVRLEVTDGPPATPAYWDGEKEVLAVARGAPALLTCVNRGHVWTDHRHVEEAQQVVHWDRQ
PPGVPHDRADRLDLYSAGERRAYGPLFLRDRVAVGADAFERGDGDFSLRIEPLVADEGTYSCHLHHHYCG
LHERRVFL TVAEPHAEPPPRGSPGNSSHSGAPGPDPTLARGHNVINIVPESRAHFFQQLGYVLATLL
LFILLTVLTLAARRRRGGYEYSDQKSGKSGKDVNLAEFAVAGDQMLYRSEDIQLDYKNNILKERAEL
AHSPLPAKYIDLDRGKGEYK

LE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2677_a10.zip

Restriction Sites: Sgfl-XhoI

Cloning Scheme:



ACCN: NM 032348

ORF Size: 1326 bp

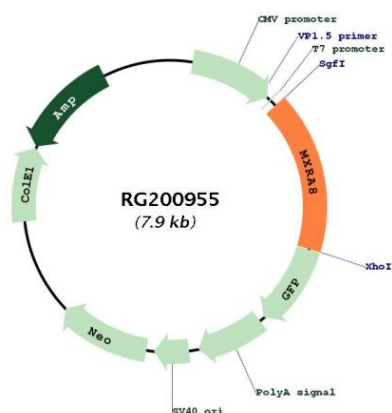
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_032348.4</u>
RefSeq Size:	2290 bp
RefSeq ORF:	1329 bp
Locus ID:	54587
UniProt ID:	<u>Q9BRK3</u>
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]

Product images:



Circular map for RG200955