

Product datasheet for **RG200670**

MAGEA8 (NM_005364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MAGEA8
Synonyms:	CT1.8; MAGE8
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200670 representing NM_005364
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCAAGGAGAGGCACAG
GGCTTATGGATGTGCAGATTCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCTACTCTGATCAT
GGGAACCTTGAGGAGGTGACTGATTCTGGGTACCAAGTCTCCACAGAGTCTGAGGGTGCCTCCTCT
TCCCTGACTGTCACCGACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCAGCAGCAATGAAGAGGAGG
GGCCAAGCACCTCCCGGACCCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGC
TGAGTTAGTTCGTTTCTGCTCCGCAAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAG
AGTGTCAATCAAAATTACAAGAACCCTTTCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGA
TCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCCGGCCACTCTACATCCTTGTACCTGCCTGGGCCT
CTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCCCAAGACCGGCCTCCTGATAATCGTCTGGGC
ATGATCTTAATGGAGGGCAGCCGCGCCCGGAGGAGGCAATCTGGGAAGCGTTGAGTGTGATGGGGCTGT
ATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACCAAGAGTGGGTGCAGGAGAA
CTACCTGGAGTACCGCCAGGCGCCCGCAGTGATCCTGTGCGCTACGAGTTCCTGTGGGGTCCAAGGGCC
CTTGCTGAAACCAAGCTATGTGAAAGTCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTTCCGATTTCT
ACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG200670 representing NM_005364
Red=Cloning site Green=Tags(s)

MLLGQKSQRYKAEGLQAQGEAPGLMDVQIPTAEQKAASSSTLIMGTLEEVDTSGLSPSPQSPGASS
SLTVTDSTLWSQSDGSSSNEEEGPSTSPDPAHLESFREALDEKVAELVRFLLRKYQIKEPVTKAEMLE
SVIKNYKNHFPDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTGLLIIVLG
MILMEGSRAPEEAIWEALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRA
LAETSYVKVLEHVVRVNARVRISYPSLHEEALGEEKGV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_005364

ORF Size: 954 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: [NM_005364.5](#)

RefSeq Size: 1833 bp

RefSeq ORF: 957 bp

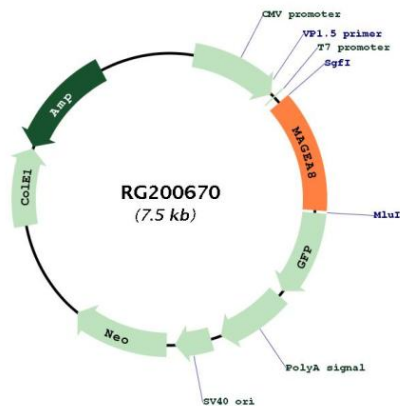
Locus ID: 4107

UniProt ID: [P43361](#)

Cytogenetics: Xq28

Gene Summary: This gene is a member of the MAGEA gene family. The members of this family encode proteins with 50 to 80% sequence identity to each other. The promoters and first exons of the MAGEA genes show considerable variability, suggesting that the existence of this gene family enables the same function to be expressed under different transcriptional controls. The MAGEA genes are clustered at chromosomal location Xq28. They have been implicated in some hereditary disorders, such as dyskeratosis congenita. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG200670