

Product datasheet for **RG201948**

MEOX 2 (MEOX2) (NM_005924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEOX 2 (MEOX2) (NM_005924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEOX 2
Synonyms:	GAX; MOX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201948 representing NM_005924 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAACACCCGCTCTTTGGCTGCCTGCGCAGCCCTCACGCCACGGCGCAAGGCTTGACCCGTTCTCCC
AATCCTCTCTCGCCCTCCATGGAAGATCTGACCATATGTCTTACCCCGAGCTCTCTACTTCTTCCTCATC
TTGCATAATCGCGGGATACCCCAACGAAGAGGGCATGTTTGCAGCCAGCATCACAGGGGGCACCACCAC
CACCACCACCACCACCATCACCACCATCAGCAGCAGCAGCACCAGGCTCTGCAAACCAACTGGCACCTCC
CGCAGATGTCTTCCACCGAGTGCGGCTCGGCACAGCCTCTGCCTCCAGCCGACTCTGGAGGGCCCCC
AGAGTTGGGGAGCAGCCCGCCCTCCTGTGCTCCAACCTTCCAGCTTGGGCTCCAGCACCCGACTGGG
GCCCGCTGCGCGCCGGGGACTACGGCCGCCAGGCACTGTACCTGCGGAGGCGGAGAAGCGAAGCGGCG
GCAAGAGGAAAAGCGACAGCTCAGACTCCCAGGAAGGAAATTACAAGTCAGAAGTCAACAGCAAACCCAG
GAAAGAAAGGACAGCATTTACCAAAGAGCAAATCAGAGAAGTGAAGCAGAATTTGCCATCATAATTAT
CTCACCAGACTGAGGCGATACGAGATAGCAGTGAATCTGGATCTCACTGAAAGACAGGTGAAAGTCTGGT
TCCAAAACAGGCGGATGAAGTGAAGAGGGTAAAGGGTGGACAGCAAGGAGCTGCGGCTCGGGAAAAGGA
ACTGGTGAATGTGAAAAGGGAACACTTCTCCATCAGAGCTGTGGGAATTGGTGCAGCCACCCCTCCAG
CAAACAGGGGACTCTATAGCAAATGAAGACAGTCACGACAGTGACCACAGCTCAGAGCATGCGCACTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201948 representing NM_005924
 Red=Cloning site Green=Tags(s)

MEHPLFGCLRSPHATAQGLHPFSQSSLALHGRSDHMSYPELSTSSSSCIAGYPNEEGMFASQHRGHHH
 HHHHHHHHHQQQHQALQTNWHLPMSSPPSAARHSLCLQPDSSGGPELGSPPVLCNSSSLGSSTPTG
 AACAPGDYGRQALSPAFAEKRSQGGKRSKSDSDSQEGNYKSEVNSKPRKERTAFATKEQIRELEAEFAHHNY
 LTRLRRYEIAVNLDLTERQYKVFQNRMMKWKRVKGGQQGAAAREKELVNVKKGTLPLSELGIGAAATLQ
 QTGDSIANEDSHSDSHSSEHAHL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005924

ORF Size: 909 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.

RefSeq: [NM_005924.3](#), [NP_005915.1](#)

RefSeq Size: 2383 bp

RefSeq ORF: 915 bp

Locus ID: 4223

UniProt ID: [P50222](#)

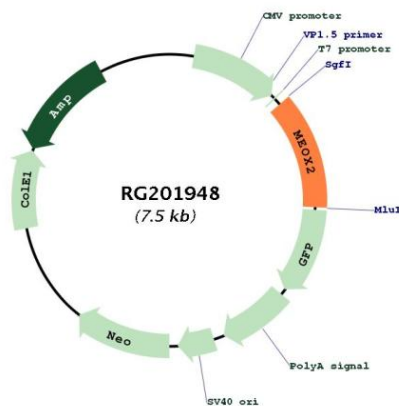
Cytogenetics: 7p21.2

Domains: homeobox

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. The encoded protein may play a role in the regulation of vertebrate limb myogenesis. Mutations in the related mouse protein may be associated with craniofacial and/or skeletal abnormalities, in addition to neurovascular dysfunction observed in Alzheimer's disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201948