

Product datasheet for **MG226820**

Alx4 (NM_007442) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Alx4 (NM_007442) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Alx4
 Synonyms: Ist
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG226820 representing NM_007442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGCTGAGACTTGCCTCTTACTGCGAGTCCCCGGCCGCTGCCATGGACGCCTACTACAGCCCGG
 TGTCGCAGAGCCGGGAAGTTTCGTCGCCTTTTAGGGGATCCCAGGAGGCGACAAGTTCGGTACAACCTTT
 TCTGTCCGCCGGGGCCAAAGGACAGGGATTCGGGGACGCCAAGAGCCGGGCCGCTACGGCGCGGGGCGAG
 CAGGACCTGGCGCACCGCTGGAGAGCAGCTCCGGGGCGCGGGGATCCTTAACAAGTTCAGCCGCGAGC
 CGCCACCCACAGCCGCGCCGCTCCACCCGCGCCGCTGCGCATCTCTACTTGCAGAGGGGCGCCTG
 CAAAACGCCCCGGACGGTAGCCTCAAGCTCCAGGAGGGCAGCGCGGCCACAACGCGGCCTTGACGGTC
 CCCTGCTACGCCAAAGAGAGCAACCTGGGTGAGCCAGAGTTGCCTCCTGACTCTGAACCCGTGGGCATGG
 ACAACAGCTACCTCAGTGTGAAGGAGACAGGGGCCAAGGGGCCCAAGGACCGGGCCAGCGCTGAAATACC
 AAGCCCCCTGGAAAAGACCGATTCTGAGAGTAACAAAGGCAAGAAGCGGGCAACCGAACCCCTTCACT
 AGCTACCAGCTGGAAGAGCTGGAGAAAGTCTCCAGAAGACACTACCTGATGTGTATGCACGGGAGC
 AGCTGGCTATGAGGACCGACCTCACCGAGGCCGTGTGCAGTTTGGTTCAGAACCGGAGGGCCAAAGTG
 GCGAAAGAGGGAGCGCTTTGGGCAGATGCAGCAGTCCGGACCCACTTCTCCACGGCCTATGAGTTGCC
 CTCCTCACCCGGGCTGAGAACTACGCCAGATTCCAGAACCCATCCTGGATTGGCAACAATGGGGCTGCCT
 CGCCAGTGCCAGCCTGTGTGGTCCCCTGTGACCCGGTACCAGCCTGTATGTCCCCTCACGCTCACCTCC
 TGGCTCCGGGGCCAGCAGCGTCTCCGACTTCTTGTGAGTGTCTCTGGAGCTGGCAGTACAGTGGGCCAGACA
 CACATGGGCAGCCTGTTTGGAGCAGCTGGCATCAGTCCGGCCCTCAATGGCTACGAGATGAACGGCGAGC
 CAGACCGCAAGACCTCAAGCATCGTGCCTTGCATGAAGGCCAAGGAGCACAGTGCAGCCATCTCTTG
 GCCACA

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226820 representing NM_007442
 Red=Cloning site Green=Tags(s)

MNAETCVSYCESPAAAMDAYYSPVSQSREGSSPFRGFPGGDKFGTTFLSAGAKGQGFGDAKSRARYGAGQ
 QDLAAPLESSSGARGSFNKFQPPPTQPPPAPPAPPAHLYLQRGACKTPPDGSLKLQEGSGGHNAALQV
 PCYAKESNLGEPELPPDSEPVGMDNSYLSVKETGAKGPQDRASAEIPSPLEKTDSESNKGKRRNRRTFTT
 SYQLEELEKVFQKTHYPDVYAREQLAMRTDLTEARVQVWFQNRRAKWRKRERFQGMQQVTRTHFSTAYELP
 LLTRAENYAQIQNPSWIGNNGAASVPVACVPCDPVPCACMSPHAHPGSGASSVSDFLSVSGAGSHVGT
 HMGSLFGAAGISPLNGYEMNGEPDRKTSIAALRMKAKEHSAAISWAT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007442

ORF Size: 1197 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_007442.3](#), [NP_031468.1](#)

RefSeq Size: 5203 bp

RefSeq ORF: 1200 bp

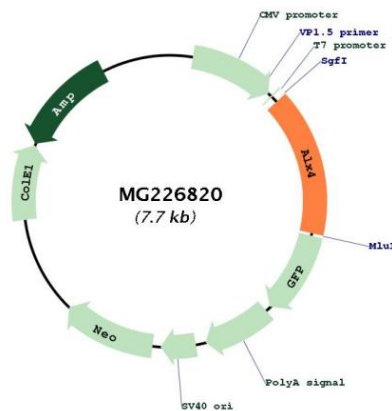
Locus ID: 11695

UniProt ID: [O35137](#)

Cytogenetics: 2 51.62 cM

Gene Summary: Transcription factor involved in skull and limb development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226820