

Product datasheet for **MR226820**

Alx4 (NM_007442) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Alx4 (NM_007442) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Alx4
 Synonyms: Ist
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR226820 representing NM_007442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGCTGAGACTTGCCTCTTACTGCGAGTCCCCGGCCGCTGCCATGGACGCCTACTACAGCCCGG
 TGTCGCAGAGCCGGGAAGTTTCGTCGCCTTTTAGGGGATCCAGGAGGCGACAAGTTCCGTACAACCTTT
 TCTGTCCGCCGGGGCCAAAGGACAGGGATTCCGGGACGCCAAGAGCCGGGCCCGCTACGGCCGGGGCAG
 CAGGACCTGGCGCACCGCTGGAGAGCAGCTCCGGGGCGCGGGGATCCTTAACAAGTCCAGCCGCAGC
 CGCCACCCACAGCCGCCCGCCCTCCACCCGCGCCCTGCGCATCTCTACTTGCAGAGGGGCGCCTG
 CAAAACGCCCCCGACGGTAGCCTCAAGCTCCAGGAGGGCAGCGCGGCCACAACGCGGCCTTGACGGTC
 CCCTGCTACGCCAAAGAGAGCAACCTGGGTGAGCCAGAGTTGCCTCCTGACTCTGAACCCGTGGGCATGG
 ACAACAGCTACCTCAGTGTGAAGGAGACAGGGGCCAAGGGGCCCAAGGACCGGGCCAGCGCTGAAATACC
 AAGCCCCCTGAAAAGACCGATTCTGAGAGTAACAAGGCAAGAAGCGGGCAACCGAACCCCTTCACT
 AGCTACCAGCTGGAAGAGCTGGAGAAAGTCTCCAGAAGACACTACCTGATGTGTATGCACGGGAGC
 AGCTGGCTATGAGGACCGACCTCACCGAGGCCGTGTGCAGGTTTGGTCCAGAACCGGAGGGCCAAAGT
 GCGAAAGAGGGAGCGCTTTGGGCAGATGCAGCAGTCCGGACCCACTTCTCCACGGCCTATGAGTTGCC
 CTCCTCACCCGGGCTGAGAACTACGCCAGATTCCAGAACCCATCCTGGATTGGCAACAATGGGGCTGCCT
 CGCCAGTGCCAGCCTGTGTGGTCCCCTGTGACCCGGTACCAGCCTGTATGTCCCCTCACGCTCACCTCC
 TGGCTCCGGGGCCAGCAGCGTCTCCGACTTCTTGTGAGTGTCTTGAGCTGGCAGTCACGTGGGCCAGACA
 CACATGGGCAGCCTGTTTGGAGCAGCTGGCATCAGTCCGGCCCTCAATGGCTACGAGATGAACGGCGAGC
 CAGACCGCAAGACCTCAAGCATCGTGCCTTGCATGAAGGCCAAGGAGCACAGTGCAGCCATCTCTTG
 GCCACA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226820 representing NM_007442
Red=Cloning site Green=Tags(s)

MNAETCVSYCESPAAAMDAYYSPVVSQSREGSSPFRGFPGGDKFGTTFLSAGAKGQGFDAKSRARYGAGQ
 QDLAAPLESSSGARGSFNKFQPPPTQPPPAPPAPPAHLYLQRGACKTPPDGSLKLEQSGGHNAALQV
 PCYAKESNLGPELPPDSEPVGMDNSYLSVKETGAKGPQDRASAEIPSLEKTDSESNKGKKRRNRRTTFT
 SYQLEELEKVFQKTHYPDVYAREQLAMRTDLTEARVQVWFQNRRAKWRKRERFGQMQQVRTHFSTAYELP
 LLTRAENYAQIQNP SWIGNNGAASPVPACVPCDPVPACMSPHAHPPGSGASSVSDFLSVSGAGSHVGT
 HMGSLFGAAGISPLNGYEMNGEPDRKTSIAALRMKAKEHSAAISWAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

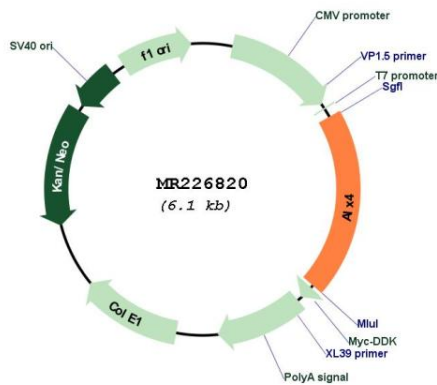
UniProt ID: [O35137](#)

Cytogenetics: 2 51.62 cM

MW: 43.2 kDa

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

Product images:



Circular map for MR226820