

Product datasheet for RG224459

ALX4 (NM_021926) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ALX4 (NM_021926) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: ALX4

Synonyms: CRS5; FND2

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG224459 representing NM_021926

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TGTCGCAGAGTCGGGAGGGCTCGTCGCCTTTTAGGGCATTTCCCGGAGGCGACAAGTTCGGCACAACTTT CCTGTCGGCCGCCAAAGCACAGGGATTCGGGGACGCCAAGAGCCGGGCCCGTTACGGCGCTGGGCAG CAGGACCTGGCGACACCCCTGGAGAGTGGAGCTGGGGCGCGGGGCTCCTTTAACAAGTTCCAGCCCCAGC CGCGCAACCGCATCTTTACTTGCAGCGAGGCGCCTGCAAGACGCCCCCGGACGGCAGCCTCAAACTCCAG GAAGGCAGCAGCGCCACAGCGCGGCCTTGCAGGTTCCCTGCTACGCTAAAGAGAGCTCCCTGGGTGAGC CAGAGTTACCCCCTGACTCTGACACTGTGGGGATGGACAGCTACCTGAGTGTCAAGGAGGCTGGGGT GAAGGGCCCCAGGACCGGCCCAGCTCAGACCTCCCCAGCCCATTGGAGAAGGCCGACTCAGAGAGCAAC AAGGGCAAGAAGCGGCGGAACCGGACCACCTTCACCAGCTACCAGCTGGAGGAGCTGGAGAAGGTCTTCC AGAAGACCCACTACCCAGACGTGTATGCGCGGGAACAGCTGGCCATGAGGACAGACCTCACTGAGGCCCG CGTGCAGGTCTGGTTCCAGAACCGAAGGGCCAAGTGGAGGAAGCGGGAGCGTTTTGGGCAGATGCAGCAG GTTCGAACCCACTTCTCCACTGCATATGAGCTGCCCCTCCTCACCCGAGCTGAGAACTACGCCCAGATTC AGAACCCGTCCTGGCTCGGCAACAACGGGGCTGCCTCACCAGTGCCAGCCTGCGTGGTCCCCTGCGACCC GGTGCCTGCCTGCATGTCCCCTCATGCCCACCCCCCTGGCTCTGGGGCCAGCAGCAGCGTCACCGACTTCCTG GCCCAGGCCTCAATGGCTACGAGCTCAACGGCGAGCCGGACCGCAAGACCTCGAGCATCGCGGCCCTCCG CATGAAGGCCAAGGAGCACAGTGCGGCCATTTCCTGGGCCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence:

>RG224459 representing NM_021926 Red=Cloning site Green=Tags(s)

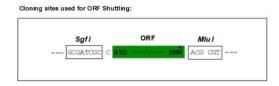
MNAETCVSYCESPAAAMDAYYSPVSQSREGSSPFRAFPGGDKFGTTFLSAAAKAQGFGDAKSRARYGAGQ QDLATPLESGAGARGSFNKFQPQPSTPQPQPPPQPQPQQQQPQPQPPPAQPHLYLQRGACKTPPDGSLKLQ EGSSGHSAALQVPCYAKESSLGEPELPPDSDTVGMDSSYLSVKEAGVKGPQDRASSDLPSPLEKADSESN KGKKRRNRTTFTSYQLEELEKVFQKTHYPDVYAREQLAMRTDLTEARVQVWFQNRRAKWRKRERFGQMQQ VRTHFSTAYELPLLTRAENYAQIQNPSWLGNNGAASPVPACVVPCDPVPACMSPHAHPPGSGASSVTDFL SVSGAGSHVGQTHMGSLFGAASLSPGLNGYELNGEPDRKTSSIAALRMKAKEHSAAISWAT

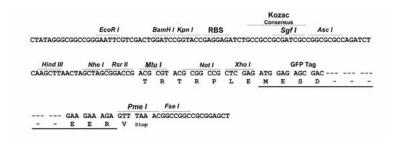
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_021926

ORF Size: 1233 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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.

ORIGENE

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: <u>NM 021926.4</u>

 RefSeq Size:
 1586 bp

 RefSeq ORF:
 1236 bp

 Locus ID:
 60529

 UniProt ID:
 Q9H161

 Cytogenetics:
 11p11.2

Protein Families: Druggable Genome

Gene Summary: This gene encodes a paired-like homeodomain transcription factor expressed in the

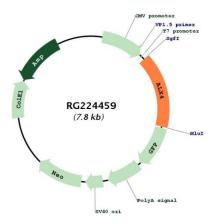
mesenchyme of developing bones, limbs, hair, teeth, and mammary tissue. Mutations in this gene cause parietal foramina 2 (PFM2); an autosomal dominant disease characterized by deficient ossification of the parietal bones. Mutations in this gene also cause a form of frontonasal dysplasia with alopecia and hypogonadism; suggesting a role for this gene in craniofacial development, mesenchymal-epithelial communication, and hair follicle

development. Deletion of a segment of chromosome 11 containing this gene, del(11)(p11p12), causes Potocki-Shaffer syndrome (PSS); a syndrome characterized by craniofacial anomalies, cognitive disability, multiple exostoses, and genital abnormalities in males. In mouse, this gene has been shown to use dual translation initiation sites located 16 codons apart.

[provided by RefSeq, Oct 2009]



Product images:



Circular map for RG224459