

Recombinant Full Length Human ALX4 Protein, GST-tagged

Cat. No. ALX4-1250HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALX4 full-length ORF (AAI66622.1, 1 a.a. - 411 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	411 amino acids
Description	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, mental retardation, 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]
Molecular Mass	45.3 kDa
AA Sequence	MNAETCVSYC ESPAAAMDAY YSPVQSREG SSPFRAFPGG DKFGTTFLSA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AAKAQGFGDA KSRARYGAGQ QDLATPLESG AGARGSFNKF QPQPSTPQPQ
 PPPQPQPQQQ QPQPQPPAQP HLYLQRGACK TPPDGSLKLQ EGSSGHSAAL
 QVPCYAKESS LGEPELPPDS DTVGMDSSYL SVKEAGVKGP QDRASSDLPS
 PLEKADSESN KGKKRRNRTT FTSYQLEELE KVFQKTHYPD VYAREQLAMR
 TDLTEARVQV WFQNRRAKWR KRERFGQMQQ VRTHFSTAYE LPLLTRAENY
 AQIQNPSWLG NNGAASPVPA CVVPCDPVPA CMSPHAHPPG SGASSVTDLF
 SVSGAGSHVG QTHMGSLFGA ASLSPGLNGY ELNGEPDRKT SSIAALRMKA
 KEHSAAISWA T

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ALX4 ALX homeobox 4 [Homo sapiens]

Official Symbol

ALX4

Synonyms

ALX4; ALX homeobox 4; aristaless like homeobox 4 , parietal foramina 2 , PFM2;
 homeobox protein aristaless-like 4; FPP; KIAA1788; PFM; aristaless-like homeobox
 4; homeodomain transcription factor ALX4; FND2

Gene ID

60529

mRNA Refseq

NM_021926

Protein Refseq

NP_068745

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MIM	605420
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UniProt ID	Q9H161
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