

Recombinant Full Length Human DUX4 Protein, GST-tagged

Cat. No. DUX4-4133HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUX4 full-length ORF (AAI60122.1, 1 a.a. - 424 a.a.) recombinant protein with GST tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	424 amino acids
Description	This gene is located within a D4Z4 repeat array in the subtelomeric region of chromosome 4q. The D4Z4 repeat is polymorphic in length and a similar D4Z4 repeat array has been identified on chromosome 10. Each D4Z4 repeat unit has an open reading frame (named DUX4) that encodes two homeoboxes; the repeat-array and ORF is conserved in other mammals. There is no evidence for transcription of the gene at this locus though RT-PCR and in vitro expression experiments indicate that a telomeric paralog of this gene is transcribed in some haplotypes. Contraction of the macrosatellite repeat causes autosomal dominant facioscapulohumeral muscular dystrophy (FSHD). [provided by RefSeq, Jun 2014]
Molecular Mass	73.1 kDa
AA Sequence	MALPTPSDSTLP AEARGRGRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAI GIPEPRVQIWFQNERSRQLRQHRRESRPWPGRRGPPGERRKRTAVTGSQTALLLR AFEKDRFPGIAAREELARETGLPESRIQIWFQNRRARHPGQGGRAPAQAGGLCSAA PGGGHPAPSWVAF AHTGAWGTGLPAPHVPCAPGALPQGAFVSQAARAAPALQPS

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QAAPAEGVSQPAPARGDFAYAAPAPPDGALSHQPAPRWPPHPGKSREDRDPQRD
GLPGPCAVAQPGPAQAGPQGQGV LAPPTSQGSPWWGWGRGPQVAGAAWEPQA
GAAPPPQPAPPDASASARQGQMQGIPAPSQALQEPAPWSALPCGLLLDELLASPEF
LQQAQPLLETEAPGELEASEEEAASLEAPLSEEEYRALLEEL

Applications

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

Notes Best use within three months from the date of receipt of this protein.

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 DUX4 double homeobox 4 [Homo sapiens]

Official Symbol DUX4

Synonyms DUX4; double homeobox 4; double homeobox protein 4; double homeobox protein 10; double homeobox protein 4/10; double homeobox protein DUX10; DUX10;

Gene ID 22947

mRNA Refseq NM_033178

Protein Refseq NP_149418

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MIM	606009
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UniProt ID	Q9UBX2
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