

# Recombinant Full Length Human DUX4 Protein, GST-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human DUX4 full-length ORF (AAI60122.1, 1 a.a. - 424 a.a.) recombinant protein with GST tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 424 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 73.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MALPTPSDSTLP AEARGRGRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAI<br>GIPEPRVQIWFQNERSRQLRQHRRESRPWPGRRGPP EGRRKRTAVTGSQTALLR<br>AFEKDRFPGIAAREELARETGLPESRIQIWFQNRRARHPGQGGRAPAQAGGLCSAA<br>PGGGHPAPSWVAF AHTGAWGTGLPAPHVPCAPGALPQGAFVSQAARAAPALQPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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QAAPAEGVSQPAPARGDFAYAAPAPPDGALSHQPAPRWPPHPGKSREDRDPQRD  
GLPGPCAVAQPGPAQAGPQGQGV LAPPTSQGSPWWGWGRGPQVAGAAWEPQA  
GAAPPPQPAPPDASASARQGQM QGIPAPSQALQEPAPWSALPCGLLLDELLASPEF  
LQQAQPLLETEAPGELEAEEAASLEAPLSEEEYRALLEEL

**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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