

Recombinant Human DUX4 Protein, GST-tagged

Cat. No. DUX4-2958H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DUX4 protein(NP_001280727.1)(263-424 aa) was expressed in E.coli with a N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	263-424 aa
Description	This gene is located within a D4Z4 repeat array in the subtelomeric region of chromosome 4q. The D4Z4 repeat is polymorphic in length; 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. The encoded protein has been reported to function as a transcriptional activator of paired-like homeodomain transcription factor 1 (PITX1; GeneID 5307). Contraction of the macrosatellite repeat causes autosomal dominant facioscapulohumeral muscular dystrophy (FSHD). Alternative splicing results in multiple transcript variants.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.
Bio-activity	Not Tested

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AA Sequence	MPGKSREDRDPQRDGLPGPCAVAQPGPAQAGPQGQGVLPAPPTSQGSPWWGWG RGPQVAGAAWEPQAGAAPPPQPAPPDASASARQGQMKGIPAPSQALQEPAPWSA LPCGLLLDELLASPEFLQQAQPLLETEAPGELEASEEEAASLEAPLSEEEYRALLEEL
Endotoxin	Please contact the lab for more information.
Purity	65%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Applications	Blocking peptide
Stability	Store for up to 12 months at -20°C to -80°C as lyophilized powder.
Storage	Short-term storage: Store at 2-8°C for (1-2 weeks). Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name	DUX4 double homeobox 4 [Homo sapiens (human)]
Official Symbol	DUX4

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Synonyms	DUX4L
Gene ID	100288687
mRNA Refseq	NM_001293798.3
Protein Refseq	NP_001280727.1
MIM	606009
UniProt ID	Q9UBX2
SDS-PAGE of DUX4-2958H 	