

Product datasheet for **RG238145**

DUX4 (NM_001293798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUX4 (NM_001293798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUX4
Synonyms:	DUX4L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238145 representing NM_001293798. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCTCCCGACACCCTCGGACAGCACCTCCCGCGGAAGCCCGGGGACGAGGACGGCGACGGAGA
CTCGTTTGGACCCGAGCCAAAGCGAGGCCCTGCGAGCCTGCTTTGAGCGGAACCCGTACCCGGGCATC
GCCACCAGAGAACGGCTGGCCAGGCCATCGGCATTCCGGAGCCAGGGTCCAGATTTGGTTTCAGAAT
GAGAGGTCAGCCAGCTGAGGCAGCACCCGGCGGAATCTCGGCCCTGGCCCGGAGACGGCGCCGCCA
GAAGGCCGGCGAAAGCGGACCGCCGTACCGGATCCAGACCGCCCTGCTCCTCCGAGCCTTTGAGAAG
GATCGCTTTCAGGCATCGCCCGCGGGAGGAGCTGGCCAGAGAGACGGGCTCCCGGAGTCCAGGATT
CAGATCTGGTTTCAGAATCGAAGGGCCAGGCACCCGGGACAGGGTGGCAGGGCGCCCGCAGGCAGGC
GGCCTGTGCAGCGCGGCCCGCGGGGTACCCCTGCTCCCTCGTGGGTGCGCTTCGCCACACCCGGC
GCGTGGGGAACGGGGCTTCCCGCACCCACAGTGCCTGCGCGCCTGGGGCTCTCCACAGGGGGCTTTC
GTGAGCCAGGCAGCGAGGGCCCGCCCGCTGCAGCCAGCCAGGCCCGCGCCGGCAGAGGGGATCTCC
CAACTGCCCGGGCGCGGGGATTTCCGCTACGCCGCCCGGCTCCTCCGGACGGGGCGCTCTCCAC
CCTCAGGCTCCTCGGTGGCTCCGCACCCGGGCAAAAGCCGGGAGGACCGGGACCCGACGCGACGGC
CTGCCGGGCCCTGCGCGGTGGCACAGCCTGGGCCGCTCAAGCGGGGCCGAGGCCAAGGGGTGCTT
GCGCCACCCACGTCCAGGGGAGTCCGTGGTGGGCTGGGGCCGGGTCCCAGGTCGCCGGGGCGGCG
TGGGAACCCCAAGCCGGGCGAGCTCCACCTCCAGCCCGCCCGGACGCTCCGCCTCCGCGCGG
CAGGGGCAGATGCAAGGCATCCCGCGCCCTCCAGGCGCTCCAGGAGCCGGCGCCTGCTGCACTC
CCCTGCGGCTGCTGCTGGATGAGCTCCTGGCAGCCCGAGTTTCTGCAGCAGGCACACTCTCTTA
GAAACGGAGGCCCGGGGAGCTGGAGGCTCGGAAGAGGCCGCTCGTGAAGCACCCCTCAGCGAG
GAAGAATACCGGGCTCTGCTGGAGGAGCTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238145
 Blue=ORF Red=Cloning site Green=Tag(s)

MALPTPSDSTLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPEPRVQIWFQN
 ERSRQLRQHRRESRPWPGRRGPEGRKRRTAVTGSQTALLLRAFEKDRFPGIAAREELARETGLPESRI
 QIWFQNRARRHPGQGRAPAQAGGLCSAAPGGGHPAPSWVAFHTGAWGTGLPAPHVPCAPGALPQGAF
 VSQAARAAPALQPSQAAPAEGISQPAPARGDFAYAAPAPPDGALSHQPAPRWPPHPGKSREDRDPQRDG
 LPGPCAVAQPGPAQAGPQGGVLA PPTSQGSPWGWGRGPQVAGAAWEPQAGAAPPQPAPPDASASAR
 QGQMGGIPAPSQALQEPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEAEEAASLEAPLSE
 ERYRALLEEL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001293798

ORF Size: 1272 bp

OTI Disclaimer: 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.

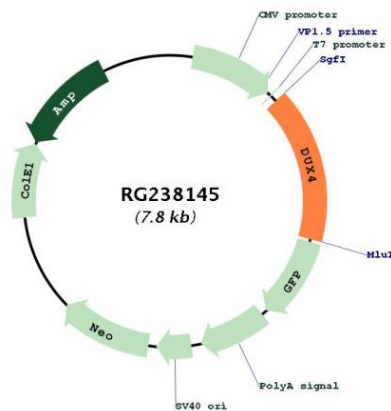
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001293798.3](#)

RefSeq Size: 1574 bp
 RefSeq ORF: 1275 bp
 Locus ID: 100288687
 UniProt ID: [Q9UBX2](#)
 Cytogenetics: 4q35.2
 MW: 45.4 kDa

Gene Summary: 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. [provided by RefSeq, Apr 2015]

Product images:



Circular map for RG238145