

Product datasheet for **RC228400**

DUX4L3 (NM_001164467) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DUX4L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC228400 representing NM_001164467
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGGGGTGGAGCCTGCCTGCCTGTGGCCTTTACAAGGGCGGCTGGCTGGCTGGCTGTCCGGG
 CAGGCCTCCTGGCTGCACCTGCCGACGTGCACAGTCCGGCTGAGGTGCACGGGAGCCCGCCGCCCTCTCT
 CTGCCCCGCTCCGTCCGTGAAATTCGGCCGGGGCTACCCGCGATGGCCCTCCCGACACCTCGGACAGC
 ACCCTCCCCGCGGAAGCCCGGGGACGAGGACGGCAGCGAGACTCGTTTGGACCCGAGCCAAAGCGAGG
 CCCTGCGAGCCTGCTTTGAGCGGAACCCGTACCCGGGCATCGCCACCAGAGAACGGCTGGCCAGGCCAT
 CGGCATTCCGGAGCCAGGGTCCAGATTTGGTTTCAGAATGAGAGGTACGCGCAGCTGAGGCAGCACCCG
 CGGGAATCTCGGCCCTGGCCCGGGAGACGCGGCCCGCCAGAAGGCCGGCGAAAGCGGACCGCGTACCCG
 GATCCAGACCGCCCTGCTCTCGAGCCTTTGAGAAGGATCGCTTCCAGGCATCGCCGCCGGGAGGA
 GCTGGCCAGAGAGACGGCCTCCCGAGTCCAGGATTCAGATCTGGTTTCAGAATCGAAGGGCCAGGCAC
 CCGGGACAGGGTGGCAGGGCGCCCGCAGGCAGGCGGCTGTGACGCGGCCCGCCGGCGGGGTACCC
 CTGCTCCCTCGTGGGTGCGCTTCGCCACACCGGCGCGTGGGGAACGGGGCTTCCCGCACCCACGTCGC
 CTGCGCGCTGGGGCTCTCCACAGGGGGCTTTCGTGAGCCAGGCAGCAGGGGCCGCCCGCGCTGCAG
 CCCAGCCAGGCCGCGCCGAGAGGGGTCTCCCAACCTGCCCGGCGCGGGGATTTGCGCTACGCCG
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 CCGGGAGGACCGGACCGCAGCGCGACGGCTGCCGGGCCCTGCGCGGTGGCAGCCTGGGCCCGCT
 CAAGCGGGGCCGAGGGCAAGGGGTGCTTGCGCCACCCACGTCCAGGGGAGTCCGTGGTGGGGTGGG
 GCCGGGTCCCCAGGTGCGCGGGCGGCGTGGGAACCCCAAGCCGGGGCAGCTCCACCTCCCCAGCCGC
 GCCCCCGGACGCTCCGCTCCGCGCGGAGGGCAGATGCAAGGCATCCCGGCGCCCTCCAGGCGCTC
 CAGGAGCCGGCGCCTGGTCTGCACTCCCCTGCGGCCTGCTGCTGGATGAGCTCCTGGCGAGCCGGAGT
 TTCTGACGAGGCGCAACCTCTCTAGAAACGGAGGCCCGGGGGAGCTGGAGGCCTCGGAAGAGGCCG
 CTCGCTGGAAGCACCCCTCAGCGAGGAAGAATACCGGGCTCTGCTGGAGGAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228400 representing NM_001164467
 Red=Cloning site Green=Tags(s)

MKGWSLPACGPLQGRLAGWLAVRAGLLAAPAAVHSPAIEVHGSPASLCPRPSVKFRPGLTAMALPTPSDS
 TLPAEARGRRRRRLVWTPSQSEALRACFERNPYPGIATRERLAQAIGIPEPRVQIWFQNERSRQLRQHR
 RESRPWPGRGPPEGRRKRTAVTGSQTALLLRAFEKDRFPGIAAREELARETGLPESRIQIWFQNRRAH
 PGQGRAPAQAGGLCSAAPGGGHPAPSWVAFHTGAWGTGLPAPHVPCAPGALPQGAFFVSQAARAAPALQ
 PSQAAPAEVVSQPAPARGDFAYAAPPDGLSHPQAPRWPPHPGKSREDRDPQRDGLPGCAVAQPGPA
 QAGPQGQVLAPPTSQGSPPWGWGRGPQVAGAAWEPQAGAAPPQPAPPDASASARQGMQIPAPSQAL
 QEPAPWSALPCGLLLDELLASPEFLQQAQPLLETEAPGELEAEEAASLEAPLSEEEYRALLEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164467

ORF Size: 1455 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

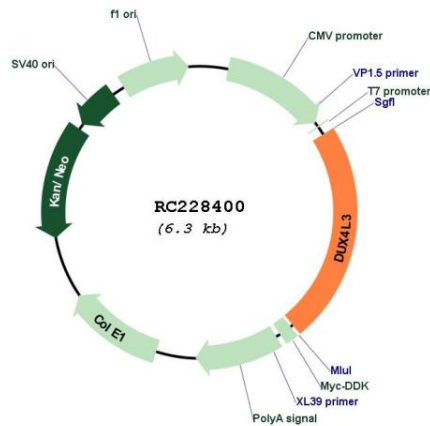
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001164467.1](#), [NP_001157939.1](#)

RefSeq ORF: 1275 bp
Locus ID: 653548
Cytogenetics: 4q35.2
MW: 50.9 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 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]

Product images:



Circular map for RC228400