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Product datasheet for RC212295

DUX1 (NM_012146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUX1 (NM_012146) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DUX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC212295 representing NM_012146
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTCCTGACAGCTTTGGACGACACCCTCCCCGAGGAAGCCCAGGGACCGGGAAGGCGAATGATAC
TCCTTTCGACCCCGAGTCAAAGTGATGCCCTGCGAGCCTGCTTTGAGCGGAACCTGTACCCGGGCATTGC
CACCAAAGAAGAGCTGGCCCAGGGCATCGACATTCCGGAGCCCAGGGTCCAGATTTGGTTTCAGAATGAG
AGATCATGCCAGTTGAGGCAGCACCGGCGGCAATCTCGGCCCTGGCCCGGGAGACGTGACCCGCAAAAAG
GCAGACGAAAGCGGACTGCCATCACCGGATCCCAAACCGCCCTGCTCCTCCGAGCCTTTGAGAAGGATCG
CTTTCCAGGCATTGCTGCCAGGGAAGAGCTGGCCAGAGAGACGGGCCTCCCGGAGTCCAGGATTCAGATC
TGGTTTCAGAATCGAAGAGCCAGGCACCGGGGACAGTCTGGCAGGGCGCCCACGCAGGCAAGCATCCGGT
GCAATGCAGCCCCAATTGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

```
>RC212295 representing NM_012146
Red=Cloning site Green=Tags(s)

MALLTALDDTLPEEAQGPGRRMILLSTPSQSDALRACFERNLYPGIATKEELAQGIDIPEPRVQIWFQNE
RSCQLRQHRRQSRPWPGRRDPQKGRRKRTAITGSQTALLLRAFEKDRFPGIAAREELARETGLPESRIQI
WFQNRRARHRGQSGRAPTQASIRCNAAPIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms:	https://cdn.origene.com/chromatograms/mk8026_d02.zip
Restriction Sites:	SgfI-MluI

View online »

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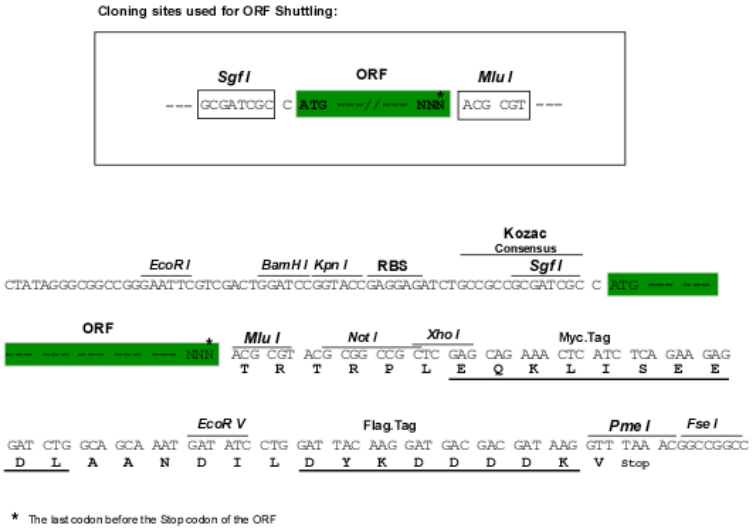
Cloning Scheme:



ACCN: NM_012146

ORF Size: 510 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_012146.1, NP_036278.1

RefSeq Size: 1227 bp

RefSeq ORF: 513 bp

Locus ID: 26584

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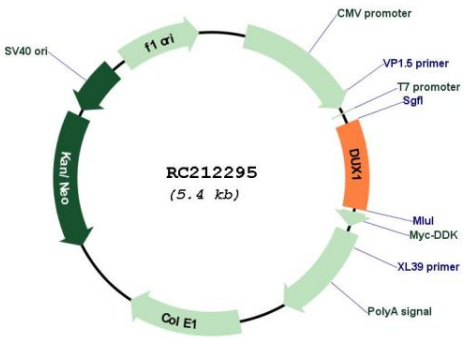
UniProt ID: O43812

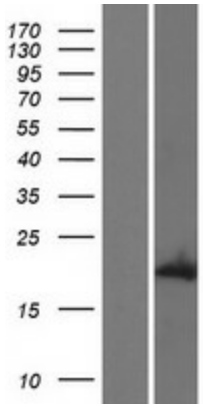
MW: 19.2 kDa

Gene Summary: The human genome contains hundreds of repeats of the 3.3-kb family in regions associated with heterochromatin. The DUX gene family, including DUX1, resides within these 3.3-kb repeated elements (Beckers et al., 2001 [PubMed 11245978]). See DUX4 (MIM 606009). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RC212295



Western blot validation of overexpression lysate (Cat# [LY415934]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212295 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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