

## Product datasheet for SC336039

### DUX4 (NM\_001293798) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DUX4 (NM_001293798) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUX4
Synonyms:	DUX4L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336039 representing NM_001293798. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCTCCCGACACCCTCGGACAGCACCTCCCGCGGAAGCCCGGGGACGAGGACGGCGACGGAGA
CTCGTTTGGACCCGAGCCAAAGCGAGGCCCTGCGAGCCTGCTTTGAGCGGAACCCGTACCCGGGCATC
GCCACCAGAGAACGGCTGGCCAGGCCATCGGCATTCCGGAGCCAGGGTCCAGATTTGGTTTCAGAAT
GAGAGGTCAGCCAGCTGAGGCAGCACCCGGCGGAATCTCGGCCCTGGCCCGGAGACGGCGCCGCCA
GAAGGCCGGCGAAAGCGGACCCCGTACCAGGATCCAGACCCGCTGCTCCTCCGAGCCTTTGAGAAG
GATCGCTTCCAGGCATCGCCCGCGGGAGGAGCTGGCCAGAGAGACGGGCTCCCGGAGTCCAGGATT
CAGATCTGGTTTCAGAATCGAAGGGCCAGGCACCCGGGACAGGGTGGCAGGGCGCCCGCGCAGGCAGGC
GGCCTGTGCAGCGCGGCCCGCGGGGTACCCCTGCTCCCTCGTGGGTGCGCTTCGCCACACCCGGC
GCGTGGGGAACGGGGCTTCCCGCACCCACGTCGCCCTGCGCGCCTGGGGCTCTCCACAGGGGGCTTTC
GTGAGCCAGGCAGCGAGGGCCCGCCCGCTGCAGCCAGCCAGGCCGCGCCGGCAGAGGGGATCTCC
CAACTGCCCGGCGCGGGGATTTCCGCTACGCCGCCCGGCTCCTCCGACGGGGCGCTCTCCAC
CCTCAGGCTCCTCGTGGCTCCGCACCCGGGCAAAAGCCGGGAGGACCGGGACCCGACGCGGACGGC
CTGCCGGGCCCTGCGCGGTGGCACAGCCTGGGCCGCTCAAGCGGGGCCGAGGGCAAGGGGTGCTT
GCGCCACCCAGTCCCAGGGGAGTCCGTGGTGGGGTGGGGCCGGGTCCCAGGTCGCCGGGGCGGGC
TGGGAACCCCAAGCCGGGCGAGCTCCACCTCCCGAGCCCGCCCGGACGCTCCGCCTCCGCGCGG
CAGGGGCAGATGCAAGGCATCCCGGCGCCTCCAGGCGCTCCAGGAGCCGGCGCCTGCTGCACTC
CCCTGCGGCTGCTGCTGGATGAGCTCCTGGCAGCCCGGAGTTTCTGCAGCAGGCACCACTCTCTTA
GAAACGGAGGCCCGGGGAGCTGGAGGCTCGGAAGAGGCCGCTCGTGAAGCACCCCTCAGCGAG
GAAGAATACCGGGCTCTGCTGGAGGAGCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```



View online »

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001293798
<b>Insert Size:</b>	1275 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001293798.2</a>
<b>RefSeq Size:</b>	1574 bp
<b>RefSeq ORF:</b>	1275 bp
<b>Locus ID:</b>	100288687
<b>UniProt ID:</b>	<a href="#">Q9UBX2</a>
<b>Cytogenetics:</b>	4q35.2
<b>MW:</b>	44.9 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate segment in the 3' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (DUX4-fl).</p>