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Product datasheet for MR223890

Dux (NM_001081954) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dux (NM_001081954) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dux
Synonyms:	AW822073; Dux4; Duxbl; EG664783
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR223890 representing NM_001081954, codon optimized.
Due to the complexity of NM_001081954, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGCCGGCTCCCCAGTCGGCGGAAGCGGAGTAGCCCGGGAAAGTAGAAGGCGCAGGAAGACTG
TCTGGCAAGCCTGGCAGGAGCAGGCGCTCCTTAGCACCTTTAAAAAGAAGCGCTATCTTTCCTTTAAAGA
ACGGAAAGAGCTCGCCAAGCGGATGGGGGTCAGCGACTGCAGGATAAGAGTGTGGTTCCAGAATCGGCGC
AATCGCTCTGGTGAAGAGGGACACGCATCCAAGCGCTCTATCCGCGGATCTCGGAGGCTCGCCTCCCCTC
AATTGCAGGAAGAGCTCGGTAGCCGGCCTCAGGGAAGGGGTATGAGGAGTTCCGGGCGCCGCCCAAGGAC
TCGCCTCACTTCTCTTCAGCTCAGAATCCTGGGACAGGCTTTCGAGAGGAATCCTCGCCCCGGTTTCGCA
ACCCGGGAGGAGCTTGCTCGAGATACCGGTCTTCCTGAGGACACAATCCACATCTGGTTCCAGAACAGAC
GAGCTCGAAGGAGGCACAGGAGGGGGCGACCGACGGCTCAGGACCAGGATCTGTTGGCATCTCAAGGAAG
TGATGGCGCACCCGCCGGACCAGAGGGCCGCGAGAGGGAAGGTGCGCAGGAAAACCTTCTGCCTCAAGAG
GAGGCAGGAAGCACCGGAATGGACACCTCCTCCCCATCTGACCTGCCGAGCTTCTGCGGAGAGAGTCAGC
CCTTTCAGGTGGCCCAACCCCGAGGCGCTGGGCAGCAAGAAGCGCCTACAAGAGCCGGCAATGCGGGCAG
TCTCGAACCTCTCCTGGATCAACTCCTCGATGAAGTCCAGGTGGAGGAACCAGCCCCAGCCCCACTCAAT
CTGGACGGAGATCCCGGAGGGAGAGTACACGAGGGTTCACAGGAGAGTTTTTGGCCCCAGGAGGAAGCGG
GTAGCACTGGGATGGATACCAGCAGCCCGTCCGACAGCAATAGTTTTTGCAGGGAAAGTCAGCCCTCTCA
AGTTGCTCAGCCTTGCGGCGCCGGGCAGGAGGACGCTAGAACCCAGGCAGACAGCACTGGACCCCTGGAG
CTCCTTCTGCTCGATCAGTTGCTGGATGAGGTTCAGAAGGAAGAGCACGTCCCCGTCCCACTGGACTGGG
GACGCAATCCTGGCTCCCGAGAGCACGAAGGTAGCCAAGATTCTCTCCTGCCTCTGGAAGAGGCAGTGAA
CTCCGGCATGGACACTTCTATTCCAAGCATCTGGCCCACCTTTTGCAGAGAAAGCCAACCACCACAGGTT
GCGCAGCCTAGCGGACCTGGACAAGCTCAGGCTCCGACCCAGGGAGGCAATACTGATCCACTCGAACTGT
TTCTCTATCAATTGCTGGACGAGGTTCAGGTCGAGGAGCACGCACCTGCTCCGCTTAATTGGGATGTGGA
TCCTGGTGGGCGCGTCCACGAAGGGTCCTGGGAGTCATTCTGGCCACAGGAGGAAGCAGGCTCAACCGGC
CTGGATACAAGCAGTCCATCCGACTCTAACTCTTTTTTTAGAGAGTCTAAGCCAAGCCAGGTGGCTCAGA
GGCGGGGCGCCGGGCAGGAGGACGCGCGCACTCAGGCAGATTCAACCGGCCCACTCGAGCTGTTGCTGTT
CGATCAGCTTTTGGATGAAGTGCAGAAGGAGGAGCATGTTCCGGCTCCTCTTGACTGGGGCCGCAATCCT
GGGAGCATGGAGCATGAAGGCTCTCAGGACTCCCTCCTCCCCTTGGAAGAGGCCGCAAATTCTGGGCGCG
ACACCAGCATCCCTAGCATTTGGCCAGCTTTCTGTAGGAAGTCCCAACCTCCACAGGTAGCCCAGCCCAG
CGGCCCCGGACAAGCCCAGGCACCTATCCAGGGTGGTAATACCGATCCACTCGAGCTCTTTCTTGACCAG
CTGCTCACCGAGGTGCAGCTGGAGGAACAAGGACCCGCTCCAGTGAACGTTGAAGAAACCTGGGAACAGA
TGGATACGACTCCGGACTTGCCGCTGACCAGCGAGGAATACCAGACCCTGCTGGACATGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

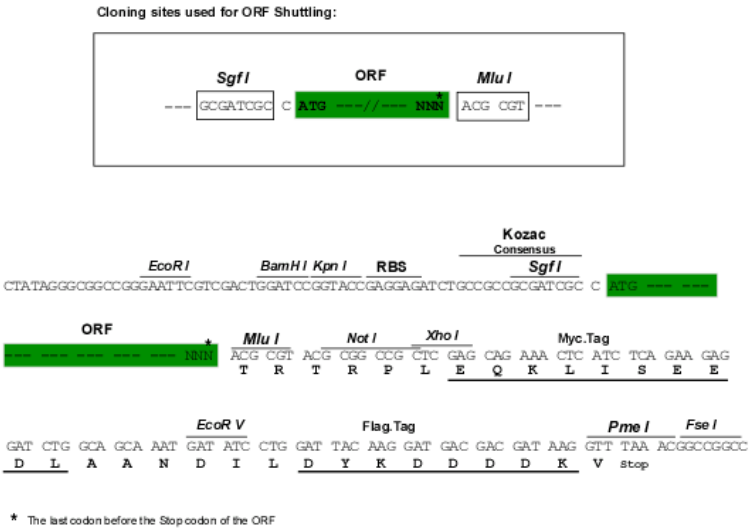
>MR223890 representing NM_001081954
Red=Cloning site Green=Tags(s)

MAEAGSPVGGSGVARESRRRRKTVWQAWQEQALLSTFKKKRYLSFKERKELAKRMGVSDCRIRVWFQNRR
NRSGEEGHASKRSIRGSRRLASPQLQEELGSRPQGRGMRSSGRRPRTRLTSLQLRILGQAFERNPRPGFA
TREELARDTGLPEDTIHIWFQNRRARRRHRRGRPTAQDQDLLASQGSDGAPAGPEGREREGAQENLLPQE
EAGSTGMDTSSPSDLPSFCGESQPFQVAQPRGAGQQEAPTRAGNAGSLEPLLDQLLDEVQVEEPAPAPLN
LDGDPGGRVHEGSQESFWPQEEAGSTGMDTSSPSDSNSFCRESQPSQVAQPCGAGQEDARTQADSTGPLE
LLLLDQLLDEVQKEEHVPVPLDWGRNPGSREHEGSQDSLLPLEEAVNSGMDTSIPSIWPTFCRESQPPQV
AQPSGPGQAQAPTQGGNTDPLELFLYQLLDEVQVEEHAPAPLNWDVDPGGRVHEGSWESFWPQEEAGSTG
LDTSSPSDSNSFFRESKPSQVAQRRGAGQEDARTQADSTGPLELLLFDQLLDEVQKEEHVPAPLDWGRNP
GSMEHEGSQDSLLPLEEAANSGRDTSIPSIWPAFCRKSQPPQVAQPSGPGQAQAPIQGGNTDPLELFLDQ
LLTEVQLEEQGPAPVNVEETWEQMDTTPDLPLTSEEYQTLLDML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081954

ORF Size: 2022 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.

RefSeq: NM_001081954.1, NP_001075423.1

RefSeq Size: 2025 bp

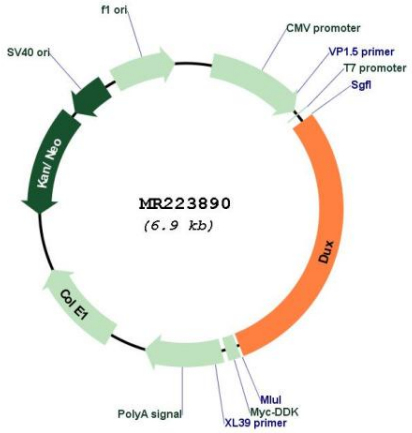
RefSeq ORF: 2025 bp

Locus ID: 664783

Cytogenetics: 10

MW: 74 kDa

Product images:



Circular map for MR223890