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# Product datasheet for RC210429

## DQX1 (NM_133637) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | DQX1 (NM_133637) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | DQX1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC210429 representing NM_133637
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCTCTCAGCCTCTCAGGCTAGCAGAAGAGTATGGCCCAAGTCCTGGGGAGTCTGAACTGGCTGTGA
ACCCCTTTGATGGGCTTCCCTTCTCTTCCCGCTACTATGAGCTGCTGAAGCAGCGCCAAGCCTTGCCCAT
CTGGGCTGCTCGCTTTACCTTCTTGGAGCAGTTGGAGAGTAACCCCACTGGAGTGGTGCTGGTGTCTGGG
GAGCCTGGTTCTGGCAAGAGCACCCAGATCCCTCAGTGGTGTGCAGAGTTTGCGCTGGCCAGAGGGTTCC
AGAAAGGACAGGTTACTGTTACTCAGCCCTACCCTCTTGCAGCCCGGAGCCTGGCTCTGCGGGTTGCTGA
TGAGATGGACCTGACCCTGGGTCATGAGGTTGGATACAGCATCCCCCAGGAGGACTGCACGGGGCCCAAC
ACCCTGCTCAGGTTCTGCTGGGACAGGCTGCTTCTGCAGGAGGTGGCCTCGACCCGAGGCACTGGAGCCT
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TTGTCCAGGGAGGTAGAGTCCTTGCTTCTCCAAGGGCTTCCACCACGAGTACTGCCCCTTCACCCAGACT
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TGCGAGCAAGAGGGTTCCCACCAGGATCCTGCCTCTGCCTGTATCCTAAGTCCTTCTTAGAACTAGAAGC
TCCACCATTGCCACAACCCAGGGTGTGTGAGGAGAATCTGAGCTCCCTGGTGTTACTACTAAAAAGGAGA
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CTCACCCTGGCTGCCATGCTCACAGCTGCCCCTGGGTTTACCCGTCCTCCACTCAGTGCAGAAGAAGCTG
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AAACTTCGGGGAGAACTCCTAGAACTCATGCAACGAATTGAACTTCCCTTGTCCCTACCAGCCTTTGGCT
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CGAAGCCGCAGAGCTCCTGCCAGACCCCCACCATGGGTGCTCTACCACAATTTCACCATATCCAAAGACA
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TAACTTGCCTCCCAGTGAGAGCAGAGACCTTCTGAACCAGCTAAGGGAAGGAATGGCAGATTCTACAGCA
GGGAGCAAATCATCCTCAGCCCAGGAGTTCAGAGATCCCTGTGTCCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC210429 representing NM_133637
Red=Cloning site Green=Tags(s)

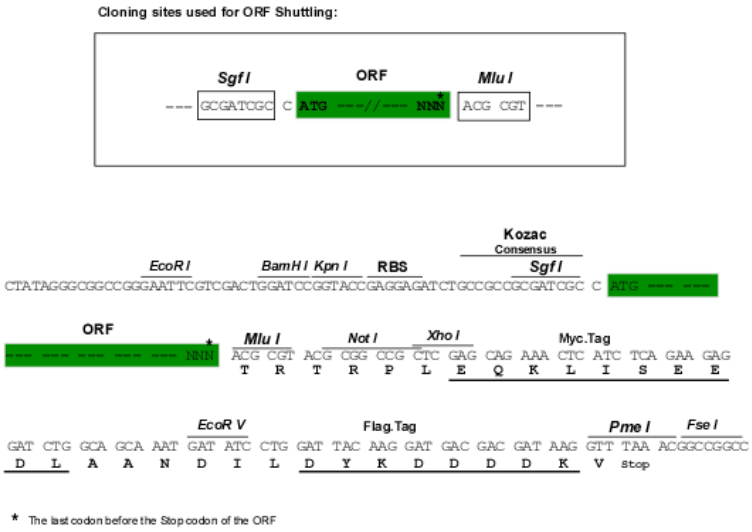
MTSQPLRLAEEYGPSPGESELAVNPFDGLPFSSRYYELLKQRQALPIWAARFTFLEQLESNPTGVVLVSG
EPGSGKSTQIPQWCAEFALARGFQKGQVTVTQPYPLAARSLALRVADEMDLTLGHEVGYSIPQEDCTGPN
TLLRFCWDRLLLQEVASTRGTGAWGVLVLDEAQERSVASDSLQGLLQDARLEKLPGDLRVVVVTDPALEP
KLRAFWGNPPIVHIPREPGERPSPIYWDTIPPDRVEAACQAVLELCRKELPGDVLVFLPSEEEISLCCES
LSREVESLLLQGLPPRVLPLHPDCGRAVQAVYEDMDARKVVVTHWLADFSFSLPSIQHVIDSGLELRSVY
NPRIRAEFQVLRPISKCQAEARRLRARGFPPGSCLCLYPKSFLELEAPPLPQPRVCEENLSSLVLLLKRR
QIAEPGECHFLDQPAPEALMQALEDLDYLAALDDDGDLSDLGVILSEFPLAPELAKALLASCEFDCVDEM
LTLAAMLTAAPGFTRPPLSAEEAALRRALEHTDGDHSSLIQVYEAFIQSGADEAWCQARGLNWAALCQAH
KLRGELLELMQRIELPLSLPAFGSEQNRRDLQKALVSGYFLKVARDTDGTGNYLLLTHKHVAQLSSYCCY
RSRRAPARPPPWVLYHNFTISKDNCLSIVSEIQPQMLVELAPPYFLSNLPPSESRDLLNQLREGMADSTA
GSKSSSAQEFRDPCVLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8025_e01.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_133637

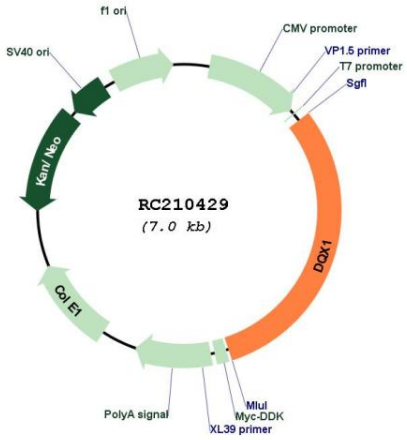
**ORF Size:** 2151 bp

**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

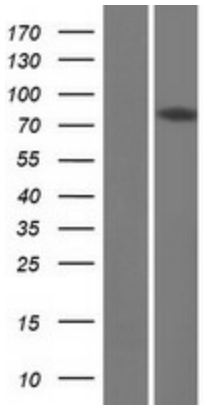
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

| | |
|---|---|
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_133637.3 |
| **RefSeq Size:** | 2650 bp |
| **RefSeq ORF:** | 2154 bp |
| **Locus ID:** | 165545 |
| **UniProt ID:** | Q8TE96 |
| **Cytogenetics:** | 2p13.1 |
| **MW:** | 79.3 kDa |

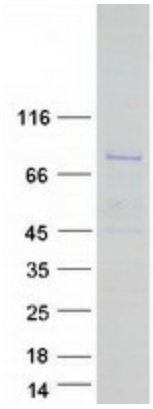
## Product images:




Circular map for RC210429




Western blot validation of overexpression lysate (Cat# [LY408758]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210429 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified DQX1 protein (Cat# [TP310429]). The protein was produced from HEK293T cells transfected with DQX1 cDNA clone (Cat# RC210429) using MegaTran 2.0 (Cat# [TT210002]).