

Product datasheet for **RR214911**

Ndst2 (NM_001105740) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst2 (NM_001105740) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndst2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214911 representing NM_001105740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCAGCTGTGGAAGGTGGTACGCCCTGCTCGGCAACTGGAAGTGCACCCGCTCATACTGCTGCTGA
 TTGGTTTCAGTCTTGCTCCATGGCATTCTGGCTTACTTTGTATCCACCAGCCCCAAGGCCAAGGAACC
 CTTGCCTCTGCCCTTGGGAGACTGTAGTAGCAGTGGGGCAGCTGGCCCTGGTCTGCAAGGCCACCAAGT
 CCACCTCGACCCCAAGGCCCTCCAGAACTGAACTCGAACAGAACCTGTGGTCTTGTGTTGTGAAAGT
 CGTACTCACAAGTGGGGCAGGAGATTGTGGCCATCTGGAGTCTAGTCGCTTTCGTTACAGCACTGAGTT
 AGCACCTGGCCGAGGGGATATGCCACGCTGACTGATCACACCCATGGTCGCTACGTGTTGGTCATCTAT
 GAGAACCTTCTAAAGTACGTCAACTTGGACTCCTGGAGTCGAGAAGTCTAGACCGATACTGTGTGGAGT
 ACGGTGTGGGCATCATTGGCTTTTCCGAGCCACGAGCATAGCCTCCTGAGTGCCCACTCAAGGGCTT
 CCCCTTTTCTATACTCAAACCTGGGGTGGGGACTACCAAGTGAACCTTCCGCTCCTCTGCTACAT
 CTACCCGCCCTAGCCGCTTGGAGCCAGGACCCTGCCTGGGGACGACTGGACCATCTCCAGTCCAATC
 ACAGCACCTATGAGCCAGTGTCTATCGCCAGCCATCGGCCAGCAGAGCTCCCCTTGCCGGGACCAGCTCT
 GCGGCGAGCCCGCTCCCCTACTGTGGTGCAGGACTTGGGGCTTATGACGGCATCCAGCGGGTGTGTTT
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 TTCACCTTCAACCTGGGCTTCTCGGGCAAGTCTATCATACGGGGACAGAGGAGGAGGACCGGGGGAGC
 ATATTGCTGCTGAGGCACCCGAGAGATTCTGGTGGTCCCTCACATGTGGAGTCAATGACGCCAACCT
 GTTCCACAATCGCTCCGTGCTGGCCGACCAGATGAGGCTCAACAACAGTTTGCTTTGGAGCATGGGATT
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 AGGCTGGAAATCCGTGTGGGCATTACAGGTGACCAGCACTGAGGAGTATCCCCATCTGCGCCCTGCTCG
 CTACCGCCGAGGCTTCAATCACAATGGCATCATGGTGTCTCCCCGGCAAACATGTGGCCTCTTCACTCAC
 ACCATCTTCTATAATGAGTATCTGGAGGTTCTCGTGAAGTGGATCGAAGCATTGAGGTTGGAGAAGTCT
 TTCTGACAGTGTGCTTAATCCGATCAGTGTCTTATGACCCATCTGTCCAACATGGAACGACCCGGCT
 GGGCCTGTACACCTTTGAGAGCCTGGTGCCTTCTCCAGTGTGGACACGGCTGCGGCTGCAGACCCTT
 CCCCTGTGCTTGTGCCAGAAGTACTTTGAACTTTTCCCTCAGGAACGAAGCCCCCTTTGGCAGAATC
 CCTGTGACGACAAGAGGCACAAAGATATCTGGTCCAAGGAGAAAACCTGTGACCGACTCCCCAAGTCTCT
 CATTGTGGGACCACAGAAGACAGGCACCACAGCCATTCACTTCTTCTGAGCCTGCACCCCGCAGTGACA
 AGCAGTTTCCCCAGCCCTAGCACCTTTGAGGAAATTCAGTTCTTCAATGGCCCCAATTACCACAAGGGCA
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 CACCTACTTTGACTCAGAGGTTGTACCTCGCGGGGGGCTGCCCTTTTGCCAAGAGCCAAGATCATCACT
 GTGCTCATCAACCCTGCTGACAGGGCTACTCCTGGTACCAGCACCAGAGAGCACATGGAGACCCTGTTG
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 GAGCCGTTGTCTTGTCTGGCTACTATTCTACCCACCTTACGCGCTGGCTGACTTACTACCCCTCCGGA
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 TCTGGGTATCACCCCTTCTGAACTACAGGAGCCCTCAGGTTTCGATGCAGATAAAGGATTTTGGTG
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 GGCTTGGACAGCCAGCCCTTGTGGCTTACAGGAAGAATTGCAGCATTCCAGTGTGGC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214911 representing NM_001105740
Red=Cloning site Green=Tags(s)

MLQLWKVVRPARQLELHRLILLIGFSLVSMFLAYFVSTSPKAKEPLPLPLGDCSSGAAGPGPARPPV
PPRPPRPETTRTEPVVLFVESAYSQIQEIVAILESSRFRYSTELAPGRGDMPTLTDHHTHGRYLVIIY
ENLLKYVNLDSWSRELLDRYCVYGVGIIGFFRAHEHSLLSAQLKGFPLFLYSNLGLRDYQVNPASAPLLH
LTRPSRLEPGPLPGDDWTFQSNHSTYEPVLIASHRPAELPLPGPALRRARLPTVVQDLGLHDGIQRVLF
GHGLSFWLHKLVFVDAVAYLTGKRLCLDLDRYILVDIDDIFVGKEGTRMKVADVEALLTTQNKLRTLVFN
FTFNLGFSGKFYHTGTEEDAGDDMLLRHRREFWFWPHMWSHMQPHLFHNRSVLADQMRLNKQFALEHGI
PTDLGYAVAPHHSGVYPIHTQLYEAWSVWGIQVTSTEEYPHLRPARYRRGF IHNGIMVLPRTQCGLFTH
TIFYNEYPGGSRELDRSIRGGELFTVLLNPISVFMTHLSNYGNDRLGLYTFESLVRFLQCWTRLRLQTL
PPVPLAQKYFELFPQERSPLWQNPCDDKRHKDIWSKEKTCDRLPKFLIVGPQKTGTTAIHFFLSLHPAVT
SSFPSPTFEEIQFFNGPNYHKIDWYMDFFPVPSNASTDFLFEKSATYFDSEVPRRGAALLPRAKIIT
VLINPADRAYSWYQHQRAGDPVALNYTFYQVISASSHAPLLLRSLSRCLVPGYYSTHLQRWLTYYPSG
QLLIMDGQELRVNPAASMEIIQKFLGITPFLNYTRTLRFDADKGFWCQGLEGGKTRCLGRSKGRRYPMDM
MESRFLFLTDFRTHNLELSKLLSRLGQPAPLWLQEELQHSSVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

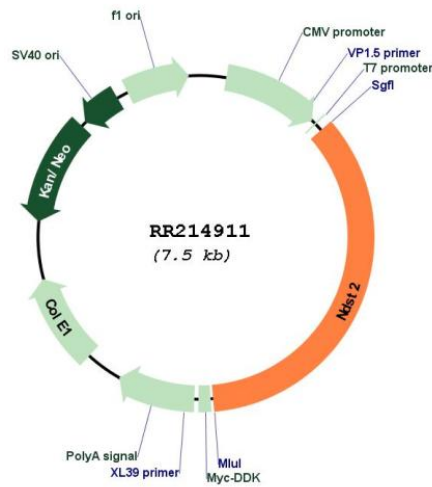
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001105740
ORF Size:	2649 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:	<ol style="list-style-type: none">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_001105740.1 , NP_001099210.1
RefSeq Size:	4145 bp
RefSeq ORF:	2652 bp
Locus ID:	114002
Cytogenetics:	15p16
MW:	101.1 kDa