

Product datasheet for **RR207532**

Nxpe4 (NM_001025055) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nxpe4 (NM_001025055) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nxpe4
Synonyms:	Fam55b; Fam55d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207532 representing NM_001025055
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAATGATGGCCAGTCGTAAGTCACGTGTTGCTGTTTATAGTGATCTTCTGGATCTCTTTTA
 CCGTTTTAGAAAACCCCGTGAAGCTATGGGCTGTGTTTAAAGCTGCCTGCATCCTTCAATCAATGGGACTT
 GATCATGAAATCCTCATGCCCTAAAGTGCCCTCAATCCATCAGTTTACCAACAGAGACAGAGCTGAGA
 ATCAGGGAGATCCTAGAGAACTAAACAACAGATCCCTCCAGACCCCTCGCCACCTCAACAACACCA
 CAAGTGTACACACAGCATAGCCACCATCTCAACCCCAAGATACATACTGTGTAGGGGACCAGCTGGA
 CATCCTGGTAGAGGCTAGAGACCACCTAAGAAACAGGAAAGGTATGGTGGGACTTCTGAGGGCCAGG
 ATGTCTTCTCCAGCCCTGAAGGCAGGCGCTTCTGGAAAAGTGACAGACTTCAACAATGGCACCTACCTG
 TCAGTTCACCTGTCTGGGAGGGCCAGGTCTCCCTGTCTATCCTGCTCATGCACCCAGTGAAGGGT
 GTCAGCTCTGAGAGCAAGGAACAGGGTACGACAGAATCATCTTCTCAGGCCATTTGTGAGTGGC
 GCTTCTCAGGTCCACACCGATTGTGCCCTGGTTCTAAATCAAGTGTGAGCTATGTCAGTATCTGGATG
 CCCAGGACCAAGAAGCTTCTACTGTGTGAAGCCTCCAAATGTGCCCTGTGCGGCCATCACCCACATGCA
 TTCCAAGAACAAGGACATTTCTTATCTTAGCCAGCAGGAAAGGAGCCTCTTTGAAAGGTCAAATATAGCT
 GTGGAGATTATGGGAAAAACCAACGTGATTAGTGTCTCCAAATGCAACAAAGCCGTCGCGTGAAGAAGA
 AATGCAAGTTGGGATGGCATCTGCAATCCCTACTGGGCATGTCTGAAAAACACGTGGAATCCGGCCTC
 CTGAGTCTGGTCCAATCAAAATGAAAGACTGCCTGAGAGGAAAACCGTCCATCTAATGGGTGATTCC
 ACAATGCGCCAGTGGATGGAGTACTTCAAAGCAAAATCAACACGCTGAGGCCGGTGGACCTCCACGAGA
 CTGGAAGGCTGCAGCACAACCTGCCGTGGACTGGATGAGAAAATCAACATCCAGTGGCAGAAACATGG
 CTTCCCTCTAATCGGGTCAATGGTGTACTCTGTCAAAGAGATAGAGAACACTGCACGGATAATTGACAGA
 ATCGGAGGAGAGAAAAACACAGTCATTGTCTTTCTCTGGGCCAGCATTTCAGACCTTTCCATTGATG
 TTTTTATCCGAAGGGCCCTCAGTGTTACAGAGCTCTTACAGCTTCTCCTGAGAAGCCCGACACCCCT
 GGTGGTCTCAAAACAGAAAACACCAGGGAGTTGAATAACGACATGGAGAGGTTTGTGACTTCCACGGT
 TACACCCAGTATCTTGCCTTAAAGAATATCTTCCAGGATCTCCGTGTGGGTGTCATTGATGCCTGGGATA
 TGACAGTTGCATATGGCACAACGATGTCCATCCACCAGAGGAGGTAGTTAGAAGTGAATTAATATATT
 CTTAAACTATATTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207532 representing NM_001025055
 Red=Cloning site Green=Tags(s)

MKMMASRKSLWLLFIVIFWISFTVFRNPVKLWAVFKLPASFNQWDLIMKSSCPKVPLNPSVSPTETELR
 IREILEKLNKQIPRPF AHLNNTTSATHSIATILNPQDTCVGDQLDILVEARDHLRNRKGYGGDFLRAR
 MSSPALKAGASGKVDFNNGTYLVSFTLFWEGQVSLSILLMHPSEGVSA LWARNQGYDRIIFSGHFVSG
 ASQVHTDCALVLNSSLVLCQYLDQDQEAFCYKPPNPVCAAITHMHSKNKDISYLSQQRSLFERSNIA
 VEIMGKSNVISVSKCNKAVPVKKKCKFGMASAIPTGHVWKNWNPASC SLAPIKMKDCLRGKLVHLMGDS
 TMRQWMEYFKSKINTLRPVDLHETGRLQHQLAVDLDEKINIQQWKHGFPLIGSLVYSVKEIENTARIIDR
 IGGKNTVIVFSLGQHF RPFIDVFIRRALS VHRALQRLLLRSPDTLVVLKTENTRELNNDMERFSDFHG
 YTQYLALKNIFQDLRVGVIDAWDMTVAYGTNDVHPPEEVVRSEINIFLNYIC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001025055

ORF Size: 1626 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_001025055.1](#), [NP_001020226.1](#)

RefSeq Size: 2981 bp

RefSeq ORF: 1629 bp

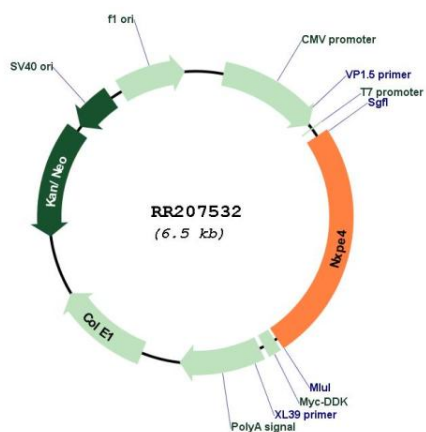
Locus ID: 500991

UniProt ID: [Q5XI89](#)

Cytogenetics: 8q23

MW: 61.6 kDa

Product images:



Circular map for RR207532