

Product datasheet for RN202174

Nhej1 (NM_001014217) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Nhej1 (NM_001014217) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Nhej1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >RN202174 representing NM_001014217
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAACTAGAGCAAGGCCTGTTGATGCAGCCATGGGCATGGTTACAACCTTGCTGAGAACTCACTCT
 TGGCCAAGGCTTCTATCACCAAGCATGGTTATGCCTTGCTGATTCGGATCTTCAACAGGTGTGGCATGA
 ACAGGTGGACACTTTGGAGGTCAGCCAGCGAGCCAAGGAGCTGAACAAGCGCCTCACCGTCCCCCTGCA
 GCTTTTCTCCATCACTTGGATGAAGTGCTTCGCCACTGTTTAAAGATTCTGCCACCAGGATGCTGCTC
 ACCTAGCAAAGCCACTTCTCCTGTGATCGTGGAGAGGATTTGATCCTGAGGGTGGGAGTGAGCT
 CTCTGGTCTCCCCTTCAATTGGCATTCCACTGTCTCCAGCTAGTTCTTTACTGGTCTCTCAGCATTTG
 ATTTGTCCTCTGATGGGTGTGAGCTTGGCATTGCACAGTCATGTGAGGGAGCTAGCAGCATTGCTTCGGA
 TGAAGGACCTTGAGATCCAGGCCTACCAGGAGAGTGGGGCTGTGCTGAGCCGAGGTCGATTGAAGACAGA
 GCCATTTGAAGAAAATTCTTTCTTGAACAGTTTATGGTAGAGAAATTGCCAGAGGCATGTGCTGTTGGT
 GATGGAAGGCCATTTGCCATGAATCTGCAGAGCCTGTATGTGGCAGTCACAAAGCAGCAGGTCCAAGCCA
 GGCAGAAGCATAAAGGCTCTGGAGAGCCTCAGACATCAAGCAGCACCTCCCCTCAAGGAAGCTGATAGCCA
 GCTTCAGAACCAGCCAGAACAGCAGATCTCTCCACTCCAACCTCTCAGAGCCTGAATGTGAGCCTATG
 GCTGCTTCAGGCCCTGTGCATAGAGCTCAGCTGGTAAAGGCCAAGAGGAAGAAGCCAGGGGACTCTTCA
 GTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
 ACCN: NM_001014217
 Insert Size: 915 bp



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OTI Disclaimer:	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).
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:	<u>NM_001014217.1</u> , <u>NP_001014239.1</u>
RefSeq Size:	1445 bp
RefSeq ORF:	915 bp
Locus ID:	363251
UniProt ID:	<u>Q6AYI4</u>
Cytogenetics:	9q33
Gene Summary:	DNA repair protein involved in DNA nonhomologous end joining (NHEJ) required for double-strand break (DSB) repair and V(D)J recombination. May serve as a bridge between XRCC4 and the other NHEJ factors located at DNA ends, or may participate in reconfiguration of the end bound NHEJ factors to allow XRCC4 access to the DNA termini. It may act in concert with XRCC6/XRCC5 (Ku) to stimulate XRCC4-mediated joining of blunt ends and several types of mismatched ends that are noncomplementary or partially complementary. Binds DNA in a length-dependent manner.[UniProtKB/Swiss-Prot Function]