

Product datasheet for **RN204374**

Zfp365 (NM_001025145) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp365 (NM_001025145) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Zfp365
Synonyms:	Znf365
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN204374 representing NM_001025145 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCAACAGACGACTTTTGAGGAAAGCCGGTACCGTTGGCAGGACTCCCTGGAGAATGTCGCTGTGTGCC
TGCCCTTCGCTGCCGAGATGTGGAGACCACGAGATTTAGAAGCTTGTGTCCTTGAGGGCTCATCT
AGAGTTCACTACAGCTACGAGGAACGAACCTCCTGACAAAATGCAGCCTCCTGCCCTCTCTCAAGGAC
ACAGACCTACTCAGGTCTCGGAGCTCCCAAGCAGGGAAACTGCTCCGGGGCCACGAAAGGTGACCA
AGCAGAAGCCTAGCTATGTTAACTTGTATAGCATCTCCCATGGGCACTCCAAGGACCCGAAACCTTTGA
GATGGTGGCAGAGAGGCCGTGTCTACGTGCAGACCTACACAGCCGTGGACATCCGGGCTGACTCTCTG
GATGCTCCCCGGTCCAGCTCTGGACTCCCCACCAAGACACCAAAGCTGCTTTCGAGGCTCACGTCCGAG
AAAAGTTCAATCGCATGGTAGAGGCCGTGGACAGGACCATCGAGAAGAGAATCGACAAACTACCAAAGA
GTTGGCCAGAAAACCGCCGAAGTGTGGAAGTCCGGGCAGCCTTTGTGCAGCTGACTCAGAAGAAGCAG
GAAGTCCAGAGGCGAGAACGCGCCCTGCACAAACAGGTGACGTGGCTGTGGAATGATCGCCGTGCTGA
AGCAGCGCTTGACGGAGTCCGAGGAGGAGCTCCTGAGGAAAGAGGAAGAAGTTGTACATTCAACCATTT
CCTGGAAGCGCGGCCGAGAAGGAGGTTCAAGGAAAAGCAAGGCTCCAGGACTTTATTGAGAACCTGCTG
CAAAGGGTAGAGCTGGCGGAGAAGCAGTTGGAGTACTATCAAAGCCAGCAGGCCTCCGGTTTCAGCCATG
ACACTAGCGAGCACATGCTCACAGACATCTCATCGAGCAGGAAGTCCCGATGCCTAAGCCGAGGGCACC
GATTCTGTTTGCAACCATCCTGAGCTGAAGGCACACTTCCATTGGAAGGGGAGAAGCTACCTGAAGAAA
GCCAAGGATGAGCGAGCCGGCATGCAGCCCGCCAGGCCATTACGAACAGGCTGAGTCTCCGAGAGAAT
TCTTCAGACCAGCCAAGAAAGGGGAGCACCTGGGCCTGAGCCGGAAGGGCAACTTCAGGCCCAAAATGGC
TAAAAAGAAGCCTACGGCGATCGTGAATATCAT**CTAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001025145
Insert Size:	1227 bp
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:	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_001025145.1, NP_001020316.1</u>
RefSeq Size:	2827 bp
RefSeq ORF:	1227 bp
Locus ID:	499425
UniProt ID:	<u>Q5PQS2</u>
Cytogenetics:	20p11
Gene Summary:	Involved in the positive regulation of oligodendrocyte differentiation during postnatal growth (PubMed:24481677). Involved in the morphogenesis of basket cells in the somatosensory cortex during embryogenesis. Involved in dendritic arborization, morphogenesis of spine density dendrite, and establishment of postsynaptic dendrite density in cortical pyramidal neurons (By similarity). Involved in the regulation of neurogenesis. Negatively regulates neurite outgrowth. Involved in homologous recombination (HR) repair pathway. Required for proper resolution of DNA double-strand breaks (DSBs) by HR. Is required for recovery of stalled replication forks, and directly contributes to genomic stability. Interacts with PARP1 and mediates MRE11-dependent DNA end resection during replication fork recovery. Contributes to genomic stability by preventing telomere dysfunction (By similarity). [UniProtKB/Swiss-Prot Function]