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Product datasheet for MC220775

Polk (BC052820) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polk (BC052820) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polk
Synonyms:	Dinb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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Fully Sequenced ORF:

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>BC052820
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAACACAAAGGAAAAGGACAACTTCAAAGACGACCTCCTGCTCCGCATGGGACTAAACGATAACA
AAGCAGGCATGGAAGGGTTGGATAAGGAGAAAATTAACAAAATTATCATGGAAGCCACAAAGGGGTCCAG
ATTTTATGAATATGATCCCAATTTTATGGCCATGAGTCTGGACGAAGCCTACTTGAATATAACACAGCAC
TTGCAGGAAAGGCAAGATTGGCCTGAGGACAAAAGAAGATACTTCATCAAAATGGGAAACTACTTAAAAA
TCGACACACCCAGACAGGAAGCTAACGAGCTGACTGAGTATGAGCGGTCCATCTCCCCGCTGCTTTTTGA
AGATAGTCCTCCTGATTTGCAACCCCAAGGAAGTCCTTTCCAACTGAACTCTGAAGAACAAAACAATCCT
CAAATAGCCCAAAATTCAGTTGTTTTTGGAACATCAGCTGAGGAAGTGGTAAAGGAAATTCGCTTCAGAA
TTGAACAAAAAACAACGCTGACAGCCAGCGCAGGCATCGCCCCCAATACAATGTTAGCAAAAGTGTGCAG
TGATAAGAATAAGCCAAACGGACAGTACCAGATCCTTCCCAGCAGGAGCGCGGTGATGGACTTCATCAAG
GACCTGCCTATTAGAAAGGTTTCTGGGATAGGAAAAGTTACAGAGAAAATGTTAATGGCTCTCGGGATTG
TTACTTGCACAGAACTCTACCAACAGAGAGCGTTGCTGTCTCTCCTTTTCTCTGAAACCTCTTGGCATTA
TTTTCTTCACATCGCGCTGGGTCTAGGTTCAACAGACCTGGCAAGGGATGGAGAAAGGAAAAGCATGAGT
GTTGAAAGGACATTCAGTGAGATAAGTAAGACAGAGGAACAGTACAGCCTGTGCCAAGAACTGTGCGCTG
AGCTCGCCCACGACCTCCAGAAGGAAGGACTTAAGGGAAGAACCGTCACCATTAAGCTGAAGAACGTGAA
TTTTGAAGTAAAAACTCGTGCATCTACCGTTCCGGCCGCCATTTCTACTGCAGAGGAAATATTTGCCATT
GCCAAGGAGCTGCTAAGGACAGAAGTTAATGTGGGTTCTCCACACCCCCTGCGGTTAAGACTGATGGGTG
TCCGAATGTCTACTTTTTCCAGTGAAGATGACAGGAAACACCAACAAAGGAGCATCATTGGTTTCTTACA
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ACACATCCAGATGTAAAACTGCGGGTCAGCAAGCTTTACAGATCTTGGAACCATCCCAAGCATTAAAGAA
GCTGAGCCAGAGTTTTGAAACATCAGAGAATTCAAATGACTGTCAGACATTTATATGTCCAGTTTGCTTT
AGGGAGCAAGAAGGTGTCAGTCTGGAAGCCTTTAATGAACATGTAGATGAGTGTCTTGATGGACCGTCAA
CCAGTGAGAACTCAAAAATATCCTGTTACTCACATGCTTCCTCTGCAGACATTGGTCAGAAGGAAGATGT
ACACCCCTCTATTCCACTGTGTGAGAAACGGGGGCATGAAAATGGAGAGATCACTTCAGTAGATGGTGTA
GATCTAACAGGGACGGAAGACAGATCATTGAAAGCAGCAAGTATGGACACTCTAGAGAATAATCGCAGCA
AAGAGGAATGTCCTGATATTCCAGACAAGTCTTGTCCTATATCACTGGCAAATGAAACCATCAGTACATT
AAGTAGGCAAGAATCTGTCCAGCCTTGTACAGATGAGGTAGTAACAGGACGAGCTCTAGTGTGTCCTGTT
TGTAACCTAGAACAAGAGACTTCTGATCTTACCCTCTTCAACATACATGTGGATATTTGCTTAAATAAAG
GTATTATCCAAGAACTGAGAAATAGTGAAGGTAATTCAGTTAAACAACCCAAAGAAAGCTCGAGAAGTAC
TGACAGACTTCAGAAGGCTTCAGGAAGGACCAAAAGGCCACGTGGAGCAACCTCACCATCAGCTCCTCCA
TGCTTAGCCACCATGGTACCATTGATGCTTCCGTACCTACCTGTGTGCATCTCTGTGTCCTGTGAGCAGA
TGCAGTTAGAATTGGCCATGATGTCCATGAAGAACATTAGCTTAACATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

ACCN: BC052820

Insert Size: 2220 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).

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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:	BC052820, AAH52820
RefSeq Size:	3517 bp
RefSeq ORF:	2219 bp
Locus ID:	27015
Cytogenetics:	13 D1
Gene Summary:	DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls (PubMed:12432099). Depending on the context, it inserts the correct base, but causes frequent base transitions, transversions and frameshifts. Lacks 3'-5' proofreading exonuclease activity. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but does not have lyase activity (By similarity).[UniProtKB/Swiss-Prot Function]

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