

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATAACACAAAGGAAAAGGACAACCTCAAAGACGACCTCCTGCTCCGCATGGGACTAAACGATAACA
 AAGCAGGCATGGAAGGGTTGGATAAGGAGAAAATTAACAAAATTATCATGGAAGCCACAAAGGGTCCAG
 ATTTTATGAATATGATCCCAATTTTATGGCCATGAGTCTGGACGAAGCCTACTTGAATATAACACAGCAC
 TTGCAGGAAAGGCAAGATTGGCCTGAGGACAAAAGAAGATACTTCATCAAATGGGAACTACTTAAAA
 TCGACACACCCAGACAGGAAGCTAACGAGCTGACTGAGTATGAGCGGTCCATCTCCCCGCTGCTTTTTGA
 AGATAGTCTCTGATTGCAACCCCAAGGAAGTCCTTTCCAACCTGAACCTCTGAAGAACAAAACAATCCT
 CAAATAGCCCAAATTCAGTTGTTTTGGAACATCAGCTGAGGAAGTGGTAAAGGAAATTCGCTTCAGAA
 TTGAACAAAAACAACGCTGACAGCCAGCGCAGGCATCGCCCCAATACAATGTTAGCAAAGTGTGCAG
 TGATAAGAATAAGCCAAACGGACAGTACCAGATCCTTCCAGCAGGAGCGGGTGTGGACTTCATCAAG
 GACCTGCCTATTAGAAAGTTTCTGGGATAGGAAAAGTTACAGAGAAAATGTTAATGGCTCTCGGGATTG
 TTACTTGACAGAACTCTACCAACAGAGAGCGTTGCTGTCTCTCTTTTCTCTGAAACCTCTTGGCATTA
 TTTTCTTACATCGCGCTGGGTCTAGGTTCAACAGACCTGGCAAGGGATGGAGAAAGGAAAAGCATGAGT
 GTTGAAAGGACATTCACTGAGATAAGTAAGACAGAGGAACAGTACAGCCTGTGCCAAGAACTGTGCGCTG
 AGCTCGCCACGACCTCCAGAAGGAAGGACTTAAGGGAAGAACCCTCACCATTAAGCTGAAGAACGTGAA
 TTTTGAAGTAAAACTCGTGCATCTACCGTTCGGCCGCCATTTCTACTGCAGAGGAAATATTTGCCATT
 GCCAAGGAGCTGCTAAGGACAGAAGTAAATGTGGTTCACACACCCCTGCGGTTAAGACTGATGGGTG
 TCCGAATGTCTACTTTTTCCAGTGAAGTACAGGAAACACCAACAAAGGAGCATCATTGGTTTCTTACA
 AGCTGGAACCAAGCTTTGTCTACTGCGGGTGTAGTCTAGACAAAACCTGCCAAAACCTGAGCTTGCAAAG
 CCCTTAGAAATGTCTATAAGAAGATTTCTTTGATAAAAAGCGATCAGAAAGAATCTCCAACCTGTCAAG
 ACACATCCAGATGTAACACTGCGGGTCAAGGCTTTACAGATCTTGAACCATCCCAAGCATTAAAGAA
 GCTGAGCCAGAGTTTTGAAACATCAGAGAATCAATGACTGTCAGACATTTATATGTCCAGTTTCTTT
 AGGGAGCAAGAAGGTGTCAGTCTGGAAGCCTTAAATGAACATGTAGATGAGTGTCTTGATGGACCGTCAA
 CCAGTGAAGACTCAAAAATATCCTGTTACTCACATGCTTCTCTGACAGCATTGGTCAGAAGGAAGATGT
 ACACCCCTCTATCCACTGTGTGAGAAACGGGGCATGAAAATGGAGAGATCACTTCAGTAGATGGTGTA
 GATCTAACAGGGACGGAAGACAGATCATTGAAAGCAGCAAGTATGGACACTCTAGAGAATAATCGCAGCA
 AAGAGGAATGTCCTGATATTCCAGACAAGTCTTGTCTATATCACTGGCAAATGAAACCATCAGTACATT
 AAGTAGGCAAGAATCTGTCCAGCCTGTACAGATGAGGTAGTAACAGGACGAGCTCTAGTGTGTCCTGTT
 TGTAACCTAGAACAAAGAGACTTCTGATCTTACCCTCTTCAACATACATGTGGATATTTGCTTAAATAAG
 GTATTATCCAAGAAGTGAAGTAAAGTGAAGTAAATTCAGTTAAACAACCCAAAGAAAGCTCGAGAAGTAC
 TGACAGACTTCAGAAGGCTTCAGGAAGGACAAAAGGCCACGTGGAGCAACCTCACCATCAGCTCCTCCA
 TGCTTAGCCACCATGGTACCATTGATGCTTCCGTACCTACCTGTGTGCATCTCTGTGTCTGTGAGCAGA
 TGCAGTTAGAATTGGCCATGATGTCCATGAAGAACATTAGCTTAACATAA

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA**

Restriction Sites: Sgfl-Mlul
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).

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>BC052820</u> , <u>AAH52820</u>
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]