

Product datasheet for **RG207621**

DOK2 (NM_003974) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | DOK2 (NM_003974) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | DOK2 |
| Synonyms: | p56DOK; p56dok-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG207621 representing NM_003974 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGACGGGGCAGTGAAACAAGGCTTCTTGTATCTTCAGCAGCAGCAGACGTTTGGAAAGAAATGGC
GCCGCTTCGGCGCCTCACTGTATGGAGGGTCGGACTGCGCCTTGGCCCGGCTGGAGCTGCAGGAGGGCCC
GGAGAAGCCTCGTCGGTGTGAGGCTGCCGGAAGGTATCCGCTCAGTGACTGCCTGCGGGTGGCCGAG
GCCGGCGAGAGGCCAGCAGCCCCGGGACACCAGTGCCCTTCTCCTGGAGACCAAGGAGCGCCTGTACC
TCCTGGCGGCCCTGCAGCGGAGCGGGGACTGGGTGCAGGCCATCTGCCTCCTGGCCTTCCCCGGGCA
GAGGAAGGAGCTCTCGGGCCAGAGGAAAGCAGAGCCGCCCCTGCATGGAGGAAAATGAATTGTACAGC
AGCGCAGTCACAGTCGGCCCCACAAGGAATTTGCTGTGACCATGAGACCTACAGAAGCCAGTGAGAGGT
GCCACCTGCGGGGCTCTATACCCTCCGGGCTGGGGAGAGTGCCCTGGAGCTGTGGGGTGGGCCCCGAGCC
AGGGACCCAGCTGTACGACTGGCCCTACAGGTTTCTGCGGCGCTTGGGCGGGACAAGGTAACCTTTTCC
TTTGAGGCAGGCCGTCGCTGCGTCTCTGGAGAGGGCACTTTGAGTTCGAAACCCGGCAAGGCAATGAGA
TCTTCTTGGCCCTGGAAGAGGCCATCTCTGCCAGAAGAATGTGCACCCGCTACACCCCAACCCGAGCC
AGCCACAATCCCCGCTCGCTGCCCGGCTGATAGCCCTACTCTCGGCCGATGACTCACTGCCGCCC
CCTTACCCACCACCCGGTGCCTGCTCCACGGCCTCGGGCAGGAGGGGGAGATGCCGTGCCCTTCG
ATGCGGTGGCCCGTTCTTGGGAAGAATTCAGGGGCATCTTGGCAGTCCCTCCTCAGCTCCTGGCCGA
CCCTCTGTACGACAGCATTGAGGAGACCTGCCCCCTCGACCTGACCACATATACGATGAGCCCCGAGGGA
GTGGTGCCCTGTCCCTATGACAGCCCGCAGGAGCCCCGGGTGAGGCATGGAGGAGGAGGCGACAG
CTGACAGGGACCCTGCTGGCCTCCAGCATGTCCAGCCAGCTGGGCAGGATTTCTCTGCTTCTGGCTGGCA
GCCAGGAAGTGTGACAATGTTGTACTAAAGAAAGGCCCAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207621 representing NM_003974
 Red=Cloning site Green=Tags(s)

MGDGAVKQGFLYLQQQTFGKKWRRFGASLYGGSDCALARLELQEGPEKPRRCEAARKVIRLSDCLRVAE
 AGGEASSPRDTSAFFLETKERLYLLAAPAAERGDWVQAICLLAFPGQRKELSGPEGKQSRPCMEENELYS
 SAVTVGPHKEFAVTRMPTEASERCHLRGSYTLRAGESALELWGGPEPGTQLYDWPYRFLRRFGRDKVTF
 FEAGRRCVSGEGNFEFETROGNEIFLALAEAISAQKNAAPATPQPQPATIPASLPRPDSYSRPHDSLPP
 PSPTTPVPAPRPRGQEGEYAVPFDVARSLGKNFRGILAVPPQLLADPLYDSIEETLPPRPDHIYDEPEG
 VAALSLEYDSPQEPRGEAWRRQATADRDPAQLQHVQPAGQDF SASGWQPGTEYDNVVLKKGPK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003974

ORF Size: 1236 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_003974.2](#), [NP_003965.2](#)

RefSeq Size: 1870 bp

RefSeq ORF: 1239 bp

Locus ID: 9046

UniProt ID: [O60496](#)

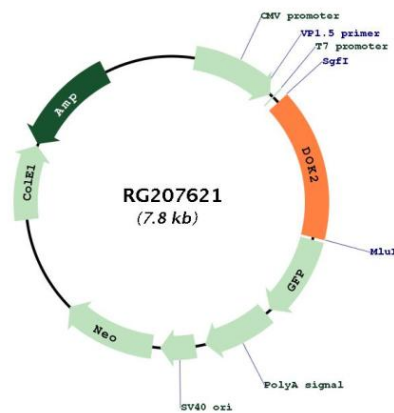
Cytogenetics: 8p21.3

Domains: PH, IRS

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is constitutively tyrosine phosphorylated in hematopoietic progenitors isolated from chronic myelogenous leukemia (CML) patients in the chronic phase. It may be a critical substrate for p210(bcr/abl), a chimeric protein whose presence is associated with CML. This encoded protein binds p120 (RasGAP) from CML cells. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207621