

Product datasheet for **MG223405**

Dock2 (NM_033374) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Dock2 (NM_033374) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Dock2 |
| Synonyms: | AI662014; AW122239; CED-5; Hch; MBC |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG223405 representing NM_033374 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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 TTTGCCAGCCAGTCCATGCCACCATCCAGCCCTCACACTCTCCGTGGCAGGCGTGCCTGGGTTGGATG
 AGGCCAACACATCTCCCCGCCTGAGTCAGACCTTCTTCCAAGTCTCAGATGGTGACAAGAAGACCCTGAA
 AAAGAAGAAAGTCAATCAATTCTCAAGACCATGCTGGCTAGCAAGTTCGAGTGAAGAAAGCAAGCAGATC
 CCAGACTTCTGTCCACCAACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223405 representing NM_033374
 Red=Cloning site Green=Tags(s)

MAPWRKTDKERHGVAIYNFQGSEAQHLTLQIGDVVRIQETCGDWYRGYLIKHKLSQGIFFPTSFHILKEVT
 VEKRRNIENIIPAEIPLAQEVTTTLWEGSIWKQLYVASKKERFLQVQSMYDLMEWRSQLLSGTLPKDE
 LKELKQKVTSKIDYGNKILELDLIVRDEEDGNILDPDKTSVISLFAHEEAATYKITERIKEEMSKDQPDYG
 VYSRISSSPHSLYVFRNFVCRIGEDAELFMSLYDPHKQTVISENYLVRWGSKGFPKEIEMNLNKVVF
 TDLGNKDLNRDKIFLICQIVRIGKMDLKDINAKKCTQGLRRPFGVAVMDITDIKGAESDEEKQHFIPF
 HPVSAENDFLHLLGKVIASKGDSGGQGLWVTMMLVGDIIQIRKDYPHLVDRTTVVARKLGFPEIIMPG
 DVRNDIYITLLQGDFDKYTKTTQRNVEIMCVCTEDGKVLPAICVAGDKAMNEYHSVYVYQVQKPRWM
 ETVKVAVPIEDMQRIHLRFMRHRSLSKDKGEKNFAMSYVKMKEDGTTLDHGYHELVLKGDSSKME
 DASAYLTLPSYRHPVENKGATLSRSSSSVGGLSVSSRDVFSISTLVCSTKLTQNVGLLGLLKWRMKPQLL
 QENLEKLIKVDGEEVVKFLQDTLDALFNIMMEHSQSNEYDILVFDALIYIIGLIADRKFQHFNTVLEAYI
 QQHF SATLAYKKLMTVLKTYLDTSSRGEQCEPILRTLKALEYVFKFIVRSRTLFSQLYEGKEQMEFEE SM
 RRLFESINLMKSQYKTTILLQVAALKYIPSVLHDVETVFDKLLSLLYEFYTCIPPVKLQKQKQVQSMN
 EIVQSNLFFKKQECRDILLPVITKELKELLEQRDDGQHAQEKKHCVELLSILEVLSCQDAAFYDHIQEI
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 TGAFKKFENEIILKLDHEVEGGRGDEQYMQLLESILMECTAEHPTIAKSVENFVSLVKGLLEKLLDYRGV
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 VMQTGQQHPQTHRQLKETLYETIIGYFDKGMWEEAISLCKELAEQYEMEIFDYELLSONLTQQAQFYEN
 IMKILRTKPDYFVAVGYGQGFPSFLRNKVFYIRGKEYERREDFMQQLLSQFPNAEKMNNTTSAPGDDVRNA
 PGQYIQCFVQPVLEHPRFKNKVPDQIINFYKSNYVQKFHYSRPVRRGKVDPENEFASMWIERTSFLT
 AYKLPGILRWFEVVHMSQTTISPLENAIETMSTVNEKILMMINQYQSDESLPINPLSMLLNGIIVDPAVMG
 GFAKYEKAFFTEEYSREHPEDQDKLSHLKDLIAWQIPFLGAGIKIHEKRVSDNLRPFHDMEECFKNLKM
 KVEKEYGVREMPDFEDRRVGRPRSMLRSYRQMSVISLASMHSDCSTPSKVPAESFDLESAPPKTPKVEEE
 PISPGSTLPEVKLRRSKRTRKSSVVFADKAATESDLKRLSRKQEFMSDTNLSEHAAIPARVSILSQMS
 FASQSMPTIPALTL SVAGVPGLDEANTSPRLSQTFFQVSDGDKKTLKKKKVNQFFKTMASKSSEESKQI
 PFDLSTNM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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| 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: | <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: | NM_033374.2 |
| RefSeq Size: | 6291 bp |
| RefSeq ORF: | 5487 bp |
| Locus ID: | 94176 |
| UniProt ID: | Q8C3J5 |
| Cytogenetics: | 11 A4 |
| Gene Summary: | Involved in cytoskeletal rearrangements required for lymphocyte migration in response of chemokines. Activates RAC1 and RAC2, but not CDC42, by functioning as a guanine nucleotide exchange factor (GEF), which exchanges bound GDP for free GTP. May also participate in IL2 transcriptional activation via the activation of RAC2.[UniProtKB/Swiss-Prot Function] |