

Product datasheet for **RC402679**

GRK1 (NM_002929) Human Mutant ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Mutant ORF Clones |
| Product Name: | GRK1 (NM_002929) Human Mutant ORF Clone |
| Mutation Description: | N330S |
| Affected Codon#: | 330 |
| Affected NT#: | 989 |
| Nucleotide Mutation: | GRK1 Mutant (N330S), Myc-DDK-tagged ORF clone of Homo sapiens G protein-coupled receptor kinase 1 (GRK1) as transfection-ready DNA |
| Effect: | Reiniis pimenos |
| Symbol: | GRK1 |
| Synonyms: | GPRK1; RHOK; RK |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| Tag: | Myc-DDK |
| ACCN: | NM_002929 |
| ORF Size: | 1689 bp |
| Restriction Sites: | Sgfi-Mlul |



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ORF Nucleotide Sequence:

>RC402679 representing NM_002929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTT**CGGGTCTTTGGAGACCGTGGTGGCCA**ACTCTGCCTTCATCGCGCCCGAGGCAGCTTTGACG
 GCAGCAGCTCCCAACCC**TCCCGGACAAGAAGTACCTGGCCAAGCTCAAGCTGCCCCCGCTGTCCAAGTG**
 TGAGTCCCTCCCGCAGACGCTCAGCCTGGAGTTT**GAGAGTGTGTGCTTGGAGCAGCCATCGGCAAGAAG**
 CTCTTT**CAGCAGTTCTACAATCGGCAGAGAAGCACCTGCCGGCCCTGGAGCTCTGAAAAGACATCGAGG**
 ACTATGACACGGCAGACAATGACCTCCAGCCACAGAAGGCC**CAGACCATCCTGGCCAGTACCTGGACCC**
 CCAGGCCAAACTCTTCTGCAGCTTCTGGATGAGGGGATAGTGGCGAAGTTT**AAGGAGGGCCTGTGGAG**
 ATCCAGGACGGGCTCTTCCAGCCCTGCTGCAGGCCACCCTGGCACACCTGGGCCAAGCCCCCTTCCAGG
 AGTACCTGGGCAGCCTGACTTCTGAGGTTCTGCAGTGAAGTGGCTGGAAGCCAGCCCATGGGGGA
 GGACTGGTTCTGGACTT**CAGGGTCTGGGAAAGGGGCTTCGGGGAGGTGTGGCCTGCCAGATGAAG**
 GCGACCCGCAAGCTGTATGCCTCAAGAAGCTGAACAAGAAGCGCTGAAGAAGAGGAAGGGCTACCAGG
 GTGCTATGGTGGAGAAGAAGATTCTGATGAAAGTACACAGCAGGTT**CATCGTGTCTCTGGCCTATGCGTT**
 TGAAACCAAAGCCGACCTCTGTCTGGT**GATGACCATCATGAACGGAGGTGACATCAGGTACCACATCTAC**
 AACGTGAATGAGGAGAACCCTGGCTTCCCGGAGCCGCGCCCTTCTACAGCGCAGATCATCTGCG
 GCCTGGAGCACCTGCACCAGAGGCGGATCGTCTACCGCACCTCAAGCCCAGAACGTGCTGTGGCAA
 TGACGGCAGTGTCCGGATCTCTGACCTTGGGCTGGCCGTGGAGCTGTGGACGGACAGAGCAAGACCAAG
 GGCTACGACGGGACCCAGGTTT**CATGGCCCCGAGCTCCTGCAGGGCAGGAGTACGACTTCTCCGTGG**
 ACTACTTTGCCCTGGGGT**CACCCTGTATGAGATGATTGCGCCAGAGGACCCCTCCGAGCCGTGGAGA**
 GAAGGTGGAGAACAAGGAGCTGAAGCACCGGATCATCTCAGAGCCCGTGAAGTACCCTGATAAGTTCAGC
 CAGGCCAGCAAGGACTTCTGCGAGGCGCTGCTGGAGAAGGACCCGGAGAAGCGCCTGGGGTT**CAGAGATG**
 AGACCTGCGACAAGCTCCGTGCCACCCCTCTTCAAGGACCTTAACTGGAGGCAGCTGGAGGCTGGGAT
 GCTGATGCCCCCTTTCATCCAGACTCCAAA**ACTGTCTACGCAAAGGATATTCAGGACGTGGGTGCCTTT**
 TCCACCGTCAAAGGTGTGGCCTTTGACAAAACAGACACAGAATTCTTTCAGGAATTTGCCACTGGCACT
 GCCCATCCCCTGGCAGGAGGATGATCGAGACGGGCATCTTGGCGAGCTGAACGTGTGGCGCTCGGA
 CGGT**CAGATGCCGGACGACATGAAGGGCATCTCCGGGGCTCCAGCTCCTCGTCCAAGTCAGGGATGTGT**
 CTGGTTCC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC402679 representing NM_002929
 Red=Cloning site Green=Tags(s)

MDFGSLETVVANSAFIAARGSFDGSSSQPSRDKKYLAKLKL**PPLSKCESLRDSL**SLEFESV**CLEQPIGKK**
 LFQQLFQSAEKHLPAL**ELWKDIEDYDTADNDLQPQKAQ**TILAQYLD**PQAKLFC**SFLDEGIVAKFKEGPVE
 IQDGLFQ**PLLQATLAHLGQAPFQEY**LGSYFLRFLQ**WKWLEAQPMGEDWFL**DFRVLGKGGFGEVSACQMK
 ATGKLYACKKLNKKR**LKKRKGYGAMVEKKILMKVHSR**FIVSLAYAFETKADLCLVMTIMNGGDIRYHIY
 NVNEENPGFPEPRALFYTAQ**II**CGL**EH**LHQRRI**VYRDLK**PENVLLDNDGSVRI**SDLGLAV**ELLDGQSKTK
 GYAGTPGFMAPELLQ**GEEYDF**SVDYFALGVTL**YEMIAARGPFR**ARGEKVENKELKHRII**SEPVKYPDKFS**
 QASKDFCEAL**LEKDPEKRLGFR**DETCDKLRAHPLFKDLNWRQ**LEAGMLMPPF**IPDSKTVYAKDIQDVGAF
 STVKGVAFDKTDTEFFQ**E**FATGNCP**IPWQE**EMIETGIFGELNVWRSDG**QMPDDMKGI**SGGSSSSSKSGMC
 LVS

SGP**TRTRRLEQKLI**SEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-MluI

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|--------------------------|--|
| Cytogenetics: | 13q34 |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | Chemokine signaling pathway, Endocytosis |
| MW: | 61.9 kDa |
| Gene Summary: | This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates rhodopsin and initiates its deactivation. Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2). [provided by RefSeq, Jul 2008] |