

Product datasheet for **RG208981**

CASKIN2 (NM_020753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASKIN2 (NM_020753) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CASKIN2
Synonyms:	ANKS5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208981 representing NM_020753 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCGTGAACAGGACCTGATCCTCGCCGTC AAGAATGGAGATGTGACCGGTGTGCAGAACTGGTGG
CGAAGGTC AAGGCCACAAAGACAAGCTCCTGGGCTCCACAAAGAGGCTCAACGTGAACTACCAGGATGC
TGATGGATTCTCTGCCCTCCACCACGCTGCTTTGGGGGCGAGCCTGGAGCTCATAGCCTTGTCTAGAG
GCTCAGGCCACTGTTGACATCAAGGACAGCAATGGCATGCGCCCGCTGCACTACGCAGCCTGGCAGGGCC
GGCTGGAGCCTGTGAGGCTGCTGCTGCGCGCCTCTGCGGCTGTCAATGCCGCTCGCTGGACGGACAGAT
CCCCCTGCACCTGGCTGCACAGTATGGACATTATGAGGTGTGAGAAATGCTCCTCCAGCATCAGTCCAAC
CCATGCCTGGTCAACAAGGCCAAGAAGACGCCCTGGACCTGGCCTGTGAATTTGGCCGACTCAAGTGG
CCCAGCTGCTTCTGAACAGCCACTTATGTGTGGCACTGCTGGAGGGTGAGGCCAAAGACCCGTGTGACCC
CAACTACACCACGCCCTGCACTTGGCTGCCAAGAATGGCCACAGAGAAGTATCAGGCAGCTCCTGAGA
GCTGGGATCGAGATCAACCGCCAGACCAAGACGGGTACGGCGCTCCACGAGGCCGCACTGTATGGCAAGA
CCGAGGTGGTGGGCTGCTTCTGGAGGGAGGTGTGGACGTGAACATCCGGAATACGATAACCAGACGGC
GCTGGACATAGTGAATCAGTTCACCACCTCCCAGGCCAGCCGGGAAATCAAGCAGCTACTGCGGGAGGCC
TCAGGGATCCTGAAGTCCGAGCGCTCAAGGATTTCTGGAACCTCCACGATCCCAGTCTCAATGTCC
GGGCAGGGGATGTCATCACGGTGTGTAACAGCATCCCGACGGCCGCTGGAAGGGCCACATCCACGAGAG
CCAGAGGGGCACAGACCCATAGGCTACTTCCCCCGGGCATTGTGAGGTGGTACGCAAGCGGGTGGGC
ATCCCTGCAGCCCGCTCCCCCTCCGACCCACCCCTGCGCCAGGCTTCTCCCGACACCCGAGCCTC
CTGCCGAAGAACCCCGCACCTCTTACCTACAGCCAGCTTCTCGGGTGGGCTCAGCCAGACAGCCC
AGCAGGTGACAGGAATAGTGTGGCAGTGAGGGCAGCGTGGCAGCATCCGCAGTGCCGGCAGCGGGCAG
AGCTCTGAGGGCACTAATGGCCATGGCCCTGGCCTCCTGATTGAGAACGCCAGCCACTGCCCTCTGCTG
GAGAGGACCAGGTGCTGCCAGGACTCCACCCGCGTCCCTGGCAGACAACCTGAGCCACCCGCTCTGGC
CAACTGCCGCTCTGGGGAGCAGATCTTACCCAGGACGTGCGGCCAGAACAGCTGCTGGAGGGGAAGGAC



[View online »](#)

GCGCAGGCCATTCATAACTGGCTAAGCGAGTTCAGCTGGAGGGCTACACTGCCCACTTTCTGCAGGCCG
GCTATGATGTGCCTACCATCAGCCGCATGACACCTGAGGACCTGACGGCCATCGGGGTGACCAAGCCTGG
GCACAGGAAGAAGATCGCCTCAGAGATCGCTCAGCTCAGCATCGCCGAGTGGCTGCCAGCTACATCCCA
ACGGACCTGTGGAGTGGCTGTGTGCACTGGGGCTGCCACAGTACCACAAGCAGCTGGTGAACAGCGGT
ACGACTCCATGGGGCTGGTGGCCGACCTCACCTGGGAGGAGCTGCAGGAGATTGGGGTCAACAAGCTCGG
GCATCAGAAGAAGCTCATGCTGGGGTGAAGCGGCTGGCGGAGCTTCGGCGGGCCTGCTGCAGGGGAG
GCCCTCAGCGAAGGCGGGCCGGCTGGCCAAGGGTCCGGAGCTGATGGCCATCGAGGGACTGGAGAAGC
GAGAAGGCCAGCTACAGCTGGCCACGGCTCCTCACCTTCCAGGGCAGCGAACTAAGCCAGAGCTACA
GGCGGCCATGGCAGGGGGTGGCCCTGAACCACTCCCCCTCCACCTGCCCGCTCTCCAGCCAGGAGAGC
ATCGGGGCACGCTCACGGGGTCTGGCCACTCACAGGAACAGCCTGCCCCACAGCCAGCGGTGGAGATC
CCAGCCCCCCCCAGGAGAGGAACCTCCCAGAGGGCACAGAGCGGGCCCCAAGCTTTGTTCTTCACTTCC
TGGCCAAGGACCCCCACCCTATGTTTTATGTACCCAGGGCTCACCTCTAGCCCGGGCCAGGGCCA
CCTCTGGCGCACCTGGCCTTCTCTACTTGGCCGGGGCCCCGCTGCCACTCCCCAGACCCGCTCGAC
CTAAGCGCGGTCCACAGCCTAAGCCGCCTGGCCCCACAGAGGGGGATGCTGAGGGGGAGGCCAAGG
GCCAGTGGGCAGCACCTAGGCAGTTATGCTACCTTACCCGGCGCCAGGACGCACTGCCCTTGTCCGG
ACCACTCTAGTGTGACCCCAACCCAGCTCGGGGGACTCCTCGAGCCAGTCTTTGCCCTGCGGGCCC
GGCGCAAAGGCCCCCGCCCCGCCCAAGCGCCTCAGCTCCGTCTCTGGCCCCAGCCCGAGCCACC
TCCACTAGATGAGAGCCAGGGCCAAGGAAGGGCCACAGGGCCCCGAAGGCGAACACTGAGTGAACCT
GCTGGCCCTCAGAGCCCCCTGGCCACCTGCCCGGCTGGGCCCGCTCAGACACGGAGGAGGAGGAGC
CAGGCCCTGAGGGGACGCCCCATCTCGGGGAGCTCTGGGAAGGGCTGCCGTTTGCAGAGGAAGGGAA
CCTGACCATCAACAGCGCCCGAAGCCGCTGGCCCCCGCCCCGAGAGACACCCGTGCCCCCGGCCTC
GATTTCAACCTCACGGAATCAGACTGTTAAGCGGAGGCCAAGTGCCGGGAGAGAGCCACTGCAGA
CCGCACTGCTGGCCTTCGGAGTGGCCAGTGCCACGCTGGCCCCGCTGCCCACTGCCTTCCCCAAGTCC
TGGCGAGTCTCCTCCAGCTTCTAGCCTTCCCCAGCCGAGCCAGCAGCTTCCAGCCCAAGGAGTTCCA
ACCCCCCTTGCTCCAGCCCCGCATGCAGCCTCAGTGGCCCTGCCAGGGCCAGGTCTGAAAAGCT
CAGCAGCTAGTCGGTGAATGGGAGACAGAACCCCCGGCCGCCCTGCTGCCCTCTCAAGGTGCCCGG
AGCAGGAACAGCCCCAAGCCTGTGTCGGTGGCTGCACCCAGCTGGCATTCTTGGCCCTAAGCTAGCG
CCCCGGCTCGGCCCGCCAGTGCCTCCTCCAGGCCTGAGAGCACTGGGACTGTGGGCCAGGCCAGG
CCCAGCAGAGACTGGAGCAGACCAGCTCGTCCCTGGCAGCTGCACTGAGAGCCGAGAGAAGAGCATTGG
CACCAAGGAGCAAGAGGGCACCCCCAGCGCTCCACCAAGCACATTCTGGATGACATCAGCACCATGTT
GACGCCCTGGCTGACCAGCTGGACGCCATGCTGGAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208981 representing NM_020753
 Red=Cloning site Green=Tags(s)

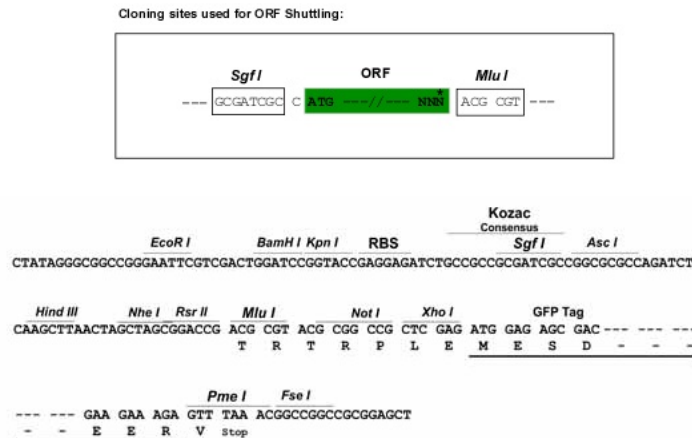
MGREQDLILAVKNGDVTGVQKLVAKVKATKTKLLGSTKRLNVNYQDADGFSALHHAALGGSLELIALLLE
 AQATVDIKDSNGMRPLHYAAWQGRLEPVRLLLRASAANAASLDGQIPLHLAAQYGHYEVSEMLLQHOSN
 PCLVNAKAKTPLDLACEFGRLKVAQLLLNSHLCVALLEGEAKDPCDPNYTTPHLAAKNGHREVIRQLLR
 AGIEINRQTKTGTALHEAALYKTEVVRLLEGGVDVNIIRNTYNQTALDIVNQFTTSQASREIKQLLREA
 SGILKVRALKDFWNLHDPALNVRAGDVITVLEQHPDGRWKGHIHESQRGTDRIIGYFPPGIVEVSKRVG
 IPAARLPSAPTPLRPGFSRTPQPPAEEPPLTYSQLPRVGLSPDSPAGDRNSVSGSEGSVRSAGSGQ
 SSEGTNGHGPGLLIENAQPLPSAGEDQVLPGLHPPSLADNLSHRPLANCRSGEQIFTQDVRPEQLLEGKD
 AQAIHNLWSEFQLEGYTAHFLQAGYDVPTISRMPEDLTAIGVTKPGRKKIASEIAQLSIAEWLPSYIP
 TDLLEWLCALGLPQYHKQLVSSGYDSMGLVADLTWEELQEIGVNLGHQKMLGVKRLAELRRGLLQGE
 ALSEGGRRLLAKGPELMAIEGLENGECPATAGPRLLTFQGSSELPELQAAMAGGGPEPLPPARSPSQES
 IGARSRGSGHSQEQPAPQPSGGDPSPQERNLPEGTERPPKLCSSLPQGPPPYVFMYPQGSPPSPAPGP
 PPGAPWAFSYLAGPPATPPDPPRKRSHSLSRPGPTEGDAEAGEAEGVPGSTLGSYATLRRRPGRSALVR
 TSPSVTPTPARGTPRSQSFALRARRKGGPPPPKRLSSVSGPSPEPPPLDESPGKPEGATGPRRRTLSEP
 AGPSEPPGPPAPAGPASDTEEEEPGPEGTPPSRGSSGEGLPFAEEGNLTIKQRPKPAGPPRETVPVPG
 DFNLTESDVKRRPKCREREPLQTALLAFGVASATPGPAAPLPSPTGESPPASSLPQPEPSSLPAQGV
 TPLAPSPAMQPPVPCPGPLESSAASRWNETEPPAAPAALLKVPGAGTAPKPVSVACTQLAFSGPKLA
 PRLGPRVPPRPESTGTVGPGQAQRLEQTSSSLAAALRAAEKISIGTKEQEGTPSASTKHILDDISTMF
 DALADQLDAMLD

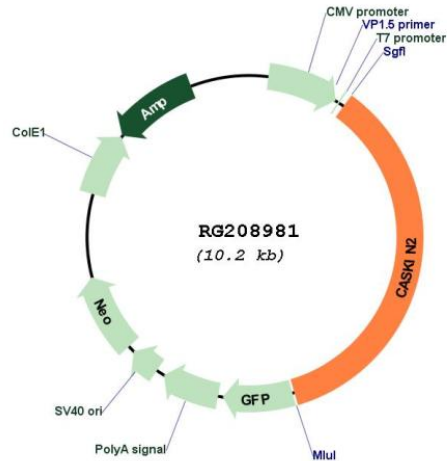
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_020753

ORF Size: 5029 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_020753.5](#)

RefSeq Size: 5005 bp

RefSeq ORF: 3609 bp

Locus ID: 57513

UniProt ID: [Q8WXE0](#)

Cytogenetics: 17q25.1

Gene Summary:

This gene encodes a large protein that contains six ankyrin repeats, as well as a Src homology 3 (SH3) domain and two sterile alpha motif (SAM) domains, which may be involved in protein-protein interactions. The C-terminal portion of this protein is proline-rich and contains a conserved region. A related protein interacts with calcium/calmodulin-dependent serine protein kinase (CASK). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]