

Product datasheet for **RG214385**

CASKIN1 (NM_020764) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CASKIN1
Synonyms:	ANKS5A
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214385 ORF sequence, **codon optimized**.
Due to the complexity of NM_020764, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGAAGGAGCAGGAGCTGGTGCAGGCGGTGAAGGCGGAGGACGTAGGGACCGCGCAGAGGCTGCTGC
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GACTCTGACGAGAAAAGAGCACTGGTAGCATCTGGACGATATCGGCAGCATGTTTCAGCAGCTGGCCG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214385 representing NM_020764

Red=Cloning site Green=Tags(s)

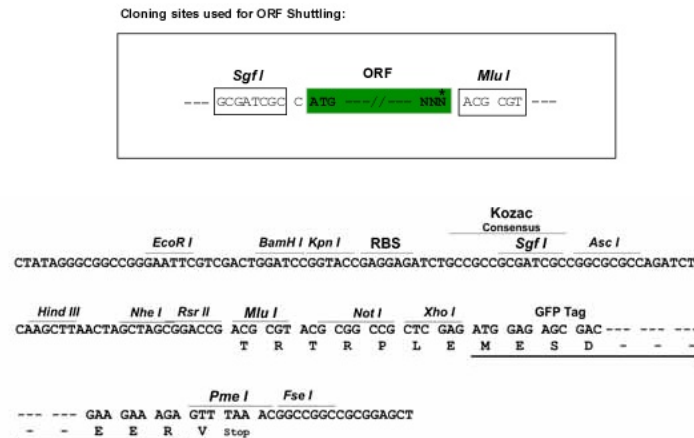
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PGAPALHVPKPPRAAAAAAAAAAAPPAPPEGASPGDSARQKLEETSACLAALQAVEEKIRQEDAQGPR
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

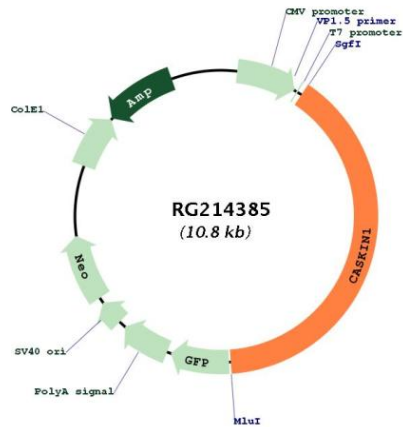
NM_020764

ORF Size:

4293 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020764.2 , NP_065815.1
RefSeq Size:	5695 bp
RefSeq ORF:	4296 bp
Locus ID:	57524
UniProt ID:	Q8WXD9
Cytogenetics:	16p13.3
Gene Summary:	May link the scaffolding protein CASK to downstream intracellular effectors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214385