

Product datasheet for **RG207739**

YANK2 (STK32B) (NM_018401) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YANK2 (STK32B) (NM_018401) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	YANK2
Synonyms:	HSA250839; STK32; STKG6; YANK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207739 representing NM_018401 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGGGAACCACTCCACAAGCCCCCGTGTGGACGAGAATGAGGAAGTCAACTTTGACCATTTTC
AGATTCTCGGGCCATTGGTAAAGGGAGTTTTGGAAAGGTATGCATCGTGCAGAAGCGAGACTAAGAA
AATGTATGCAATGAAGTACATGAACAAGCAGAAGTGCATCGAGAGGGATGAGGTTCCGAATGTTTTCCGG
GAGCTGCAGATCATGCAAGGGCTGGAGCACCCCTTCTGGTCAATCTGTGGTACTCCTCCAGGATGAGG
AGGACATGTTTCATGGTGGTGGACCTGCTCCTGGGAGGCGACCTGCGCTACCATCTGCAGCAGAATGTGCA
TTTCACAGAGGGGACTGTGAAACTCTACATCTGTGAGCTGGCACTGGCCCTGGAGTATCTTCAGAGGTAC
CACATCATCCACAGAGACATCAAGCCAGACAATATCCTGCTGGATGAACACGGACATGTTACATTACAG
ACTTCAACATAGCGACGGTAGTAAAGGAGCAGAAAGGGCTTCTCCATGGCTGGCACCAAGCCCTACAT
GGCTCCAGAAGTATTCCAGGTGTACATGGACGGAGGCCCGGATACTCGTACCCTGTGACTGGTGGTCC
CTGGGCATCACAGCCTATGAGCTGCTGCGGGCTGGAGGCCGTACGAAATCCACTCGTCCAGCCATCG
ATGAAATCCTCAACATGTTCAAGGTGGAGCGTGTCCACTACTCCTCCACGTGGTCAAGGGGATGGTGGC
CCTGCTGAGGAAGCTCCTGACCAAGGATCCTGAGAGCCGCGTGTCCAGCCTTCATGACATACAGAGCGTG
CCCTACTTGGCCGACATGAACTGGGACCGGTGTTCAAGAAGGCACTGATGCCCGCTTTGTGCCCAATA
AAGGGAGTTGAACTGCGATCCCACATTTGAGCTTGAAGAGATGATTCTAGAATCCAAGCCACTTCACAA
AAAGAAGAAGCGATTGGCAAAGAACAGATCCAGGGATGGCACAAAGGACAGCTGCCCGCTGAATGGACAC
CTGCAGCACTGTTTGGAGACTGTCCGGGAGGAATTCATCATATTCAACAGAGAGAAGCTCAGGAGGCAGC
AGGGACAGGGCAGCCAGCTCTTGGACACCCGACAGCCGAGGGGGAGGCCAGGCCCAAGCAAGCTCCAGGA
CGGGTGAACAACAACCTCCTCACCCACACCTGCACCCGTGGCTGCAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207739 representing NM_018401
 Red=Cloning site Green=Tags(s)

MGGNHSKPPVFDENEVNFDFHFQILRAIGKGSFGKVCIVQKRDTKKMYAMKYMNKQKCIERDEVRNVFR
 ELQIMQGLEHPFLVNLWYSFQDEEDMFVVDDLGGDLRYHLQQNVHFTEGTVKLYICELALALEYLQRY
 HIIHRDIKPDNILLDEHGHVHITDFNIATVVKGAERASSMAGTKPYMAPEVFQVYMDGGPGYSYPVDWWS
 LGITAYELLRGWRPYEIHVSVTPIDEILNMFKVERVHYSSWCKGMVALLRKLTKDPESRVSSLHDIQSV
 PYLADMNWDVAFKKALMPGFVFNKGRNLNCDPTFELEEMILESKPLHKKKRLAKNRSRDGTDKSCPLNGH
 LQHCLETVREEFIIFNREKLRRQQGQSLLDTSRGGGQAQSKLQDGCNNLLTHTCTRCSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018401

ORF Size: 1242 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_018401.1](#), [NP_060871.1](#)

RefSeq Size: 3224 bp

RefSeq ORF: 1245 bp

Locus ID: 55351

UniProt ID: [Q9NY57](#)

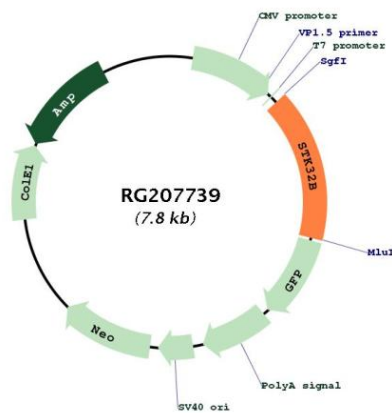
Cytogenetics: 4p16.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a serine-threonine protein kinase. Serine-threonine kinases transfer phosphate molecules to the oxygen atoms of serine and threonine. A genomic deletion affecting this gene has been associated with Ellis-van Creveld syndrome, an autosomal recessive skeletal dysplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG207739