OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR230443

Yes1 (NM_001205133) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yes1 (NM_001205133) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Yes1
Synonyms:	p61-Yes; Yes
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR230443 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTGCATTAAAAGTAAAGAAAACAAAAGTCCAGCCATAAAATACACACCGGAAAATCTTACAGAGC
CTGTAAGCCCAAGTGCCAGTCATTATGGAGTGGAACATGCTACAGTTGCCCCGACCTCTTCCACAAAGGG
AGCATCAGTTAATTTTAACAGTCTTTCCATGACACCCTTTGGAGGGTCCTCAGGGGTGACTCCTTTTGGA
GGAGCGTCTTCCTCATTCTCAGTGGTGTCAAGTTCATATCCTACAGGTTTAACAGGTGGTGTCACTATAT
TTGTGGCCTTGTATGATTATGAAGCTAGAACTACAGAAGACCTTTCCTTTAAGAAGGGTGAACGATTTCA
AATAATTAACAATACGGAAGGAGACTGGTGGGAAGCAAGATCAATTGCTACCGGAAAGAGTGGTTATATC
CCTAGCAATTACGTAGTGCCTGCAGATTCCATTCAGGCAGAAGAATGGTATTTTGGCAAAATGGGGAGAA
AAGATGCGGAAAGATTACTTCTGAATCCTGGGAATCAGCGAGGTATTTTCTTAGTAAGAGAAAGTGAAAC
TACTAAAGGTGCTTACTCCCTCTCAATCCGTGATTGGGATGAGGTGAGGGGTGACAATGTGAAGCATTAC
AAGATCAGAAAACTTGACAATGGTGGCTACTACATCACGACCAGAGCTCAGTTTGATACACTGCAGAAGC
TGGTGAAGCACTACACAGAACATGCTGATGGATTATGCCACAAGTTAACAACTGTGTGTCCTACTGTGAA
ACCCCAGACTCAAGGTCTGGCAAAAGATGCTTGGGAAATCCCTCGAGAATCATTGCGACTAGAGGTGAAA
CTAGGTCAAGGATGCTTTGGGGAAGTGTGGATGGGAACATGGAATGGAACTACAAAAGTAGCAATCAAAA
CACTAAAGCCAGGTACAATGATGCCAGAAGCATTCCTTCAAGAAGCTCAGATAATGAAAAAGCTAAGACA
CGATAAACTTGTTCCACTCTATGCAGTTGTTTCTGAAGAGCCCATTTATATTGTCACCGAGTTTATGTCA
AAAGGAAGCTTGTTAGATTTCCTTAAAGAAGGAGATGGAAAGTATTTGAAGCTTCCACAGCTGGTTGATA
TGGCTGCTCAGATCGCTGATGGCATGGCGTATATTGAAAGAATGAACTATATTCACCGAGATCTCCGAGC
TGCTAATATTCTTGTAGGAGAAAATCTTATATGCAAAATAGCAGATTTTGGCTTAGCAAGATTAATTGAA
GACAATGAATACACGGCAAGACAAGGTGCAAAATTTCCAATCAAGTGGACAGCTCCTGAGGCTGCTCTGT
ATGGTCGATTTACAATAAAGTCAGATGTGTGGTCATTTGGAATTCTACAGACAGAGCTGGTAACAAAAGG
AAGAGTGCCATATCCAGGTATGGTAAACCGTGAAGTATTGGAACAAGTAGAGCGGGGATACAGAATGCCT
TGCCCCCAGGGCTGTCCCGAATCCCTCCATGAATTGATGAATCTTTGCTGGAAGAAGGATCCTGATGAAA
GACCAACATTTGAATATATTCAGTCCTTCTTGGAAGACTACTTCACTGCTACAGAGCCACAGTACCAACC
AGGAGAAAATTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

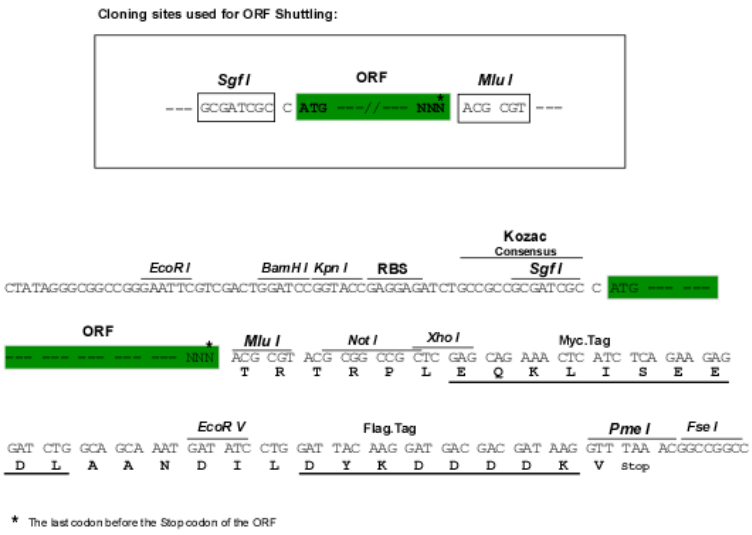
>MR230443 protein sequence
Red=Cloning site Green=Tags(s)

MGCIKSKENKSPAIKYTPENLTEPVSPSASHYGVEHATVAPTSSTKGASVNFNSLSMTPFGGSSGVTPFG
GASSSFSVVSSSYPTGLTGGVTIFVALYDYEARTTEDLSFKKGERFQIINNTEGDWWEARSIATGKSGYI
PSNYVVPADSIQAEEWYFGKMGRKDAERLLLNPGNQRGIFLVRESETTKGAYSLSIRDWDEVRGDNVKHY
KIRKLDNGGYYITTRAQFDTLQKLVKHYTEHADGLCHKLTTVCPTVKPQTQGLAKDAWEIPRESLRLEVK
LGQGCFGEVWMGTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKLRHDKLVPLYAVVSEEPIYIVTEFMS
KGSLLDFLKEGDGKYLKLPQLVDMAAQIADGMAYIERMNYIHRDLRAANILVGENLICKIADFGLARLIE
DNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILQTELVTKGRVPYPGMVNREVLEQVERGYRMP
CPQGCPESLHELMNLCWKKDPDERPTFEYIQSFLEDYFTATEPQYQPGENL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001205133

ORF Size: 1623 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_001205133.1, NP_001192062.1

RefSeq Size: 2432 bp

RefSeq ORF: 1626 bp

Locus ID: 22612

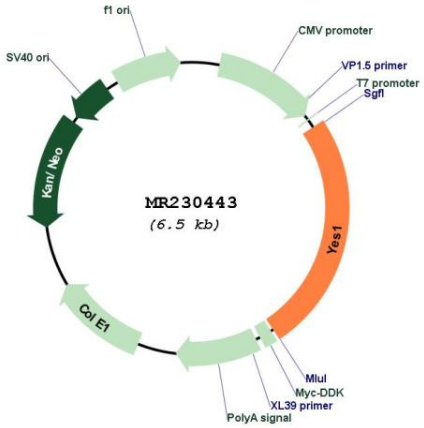
UniProt ID: Q04736

Cytogenetics: 5 17.33 cM

MW: 60.6 kDa

Gene Summary: Non-receptor protein tyrosine kinase that is involved in the regulation of cell growth and survival, apoptosis, cell-cell adhesion, cytoskeleton remodeling, and differentiation. Stimulation by receptor tyrosine kinases (RTKs) including EGRF, PDGFR, CSF1R and FGFR leads to recruitment of YES1 to the phosphorylated receptor, and activation and phosphorylation of downstream substrates. Upon EGFR activation, promotes the phosphorylation of PARD3 to favor epithelial tight junction assembly. Participates in the phosphorylation of specific junctional components such as CTNND1 by stimulating the FYN and FER tyrosine kinases at cell-cell contacts. Upon T-cell stimulation by CXCL12, phosphorylates collapsin response mediator protein 2/DPYSL2 and induces T-cell migration. Participates in CD95L/FASLG signaling pathway and mediates AKT-mediated cell migration. Plays a role in cell cycle progression by phosphorylating the cyclin dependent kinase 4/CDK4 thus regulating the G1 phase. Also involved in G2/M progression and cytokinesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230443