

## Product datasheet for **MR208634**

### Yes1 (NM\_009535) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Yes1 (NM_009535) 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:**

>MR208634 representing NM\_009535  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCTGCATTAAGTAAAGAAAACAAAAGTCCAGCCATAAAATACACACCGGAAAATCTTACAGAGC  
 CTGTAAGCCCAAGTGCCAGTCATTATGGAGTGGAAACATGCTACAGTTGCCCGACCTCTCCACAAAGGG  
 AGCATCAGTTAATTTAACAGTCTTTCCATGACACCCCTTTGGAGGGTCTCAGGGGTGACTCCTTTTGA  
 GGAGCGTCTTCTCATTCTCAGTGGTGTCAAGTTCATATCCTACAGTTTAAACAGGTGGTGTCACTATAT  
 TTGTGGCCTTGTATGATTATGAAGCTAGAAGTACAGAAGACCTTTCTTTAAGAAGGGTGAACGATTTCA  
 AATAATTAACAATACGGAAGGAGACTGGTGGGAAGCAAGATCAATTGCTACCGGAAAAGAGTGGTTATATC  
 CCTAGCAATTACGTAGTGCCTGCAGATTCATTACGGCAGAAGAATGGTATTTTGGCAAAATGGGGAGAA  
 AAGATGCGGAAAGATTACTTCTGAATCCTGGGAATCAGCGAGGTATTTTCTTAGTAAGAGAAAGTGAAC  
 TACTAAAGGTGCTTACTCCCTCAATCCGTGATTGGGATGAGGTGAGGGGTGACATGTGAAGCATTAC  
 AAGATCAGAAAACCTTGACAATGGTGGCTACTACATCACGACCAGAGCTCAGTTTGATACACTGCAGAAGC  
 TGGTGAAGCACTACAGAACATGCTGATGGATTATGCCACAAGTTAACAACGTGTGTCTACTGTGAA  
 ACCCCAGACTCAAGGTCTGGCAAAGATGCTTGGGAAATCCCTCGAGAATCATTGCGACTAGAGGTGAAA  
 CTAGGTCAAGGATGCTTTGGGAAAGTGGATGGGAACATGGAATGGAACACAAAAGTAGCAATCAAAA  
 CACTAAAGCCAGGTACAATGATGCCAGAAGCATTCTTCAAGAAGCTCAGATAATGAAAAAGCTAAGACA  
 CGATAAACTTGTCCACTCTATGCAGTTGTTTCTGAAGAGCCATTTATATTGTCACCGAGTTTATGTCA  
 AAAGGAAGCTTGTAGATTTCTTAAAGAAGGAGATGAAAAGTATTTGAAGCTTCCACAGCTGGTTGATA  
 TGGCTGCTCAGATCGCTGATGGCATGGCGTATATTGAAAGAATGAACTATATCCACCGAGTCTCCGAGC  
 TGCTAATATTCTGTAGGAGAAAATCTTATATGCAAAAATAGCAGATTTTGGCTTAGCAAGATTAATTGAA  
 GACAATGAATACACGGCAAGACAAGGTGCAAAAATTTCCAATCAAGTGGACAGCTCCTGAGGCTGCTCTGT  
 ATGGTCGATTTACAATAAAGTCAGATGTGTGGTCAATTTGGAATTTACAGACAGAGCTGGTAAACAAAAGG  
 AAGAGTGCATATCCAGGTATGGTAAACCGTGAAGTATTGGAACAAGTAGAGCGGGGATACAGAATGCCT  
 TGCCCCAGGGCTGTCCCGAATCCCTCCATGAATTGATGAATCTTTGCTGGAAGAAGGATCCTGATGAAA  
 GACCAACATTTGAATATATTCAGTCCTTCTTGAAGACTACTTCACTGCTACAGAGCCACAGTACCAACC  
 AGGAGAAAATTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208634 representing NM\_009535  
 Red=Cloning site Green=Tags(s)

MGIKSKENKSPAICYTPENLTPVSPSASHYVEHATVAPTSSTKGASVNFNSLSMTPFGSSGVTPFG  
 GASSFSVSSSYPTGLTGGVTIFVALYDYEARITTEDLSFKKGERFQIINNTEGDWWEARSIATGKSGYI  
 PSNYVVPADSIQAEWYFGKMRKDAERLLLNPQNQRGIFLVRESETKGAYSLIRDWDEVRGDNVKHY  
 KIRKLDNGGYYITTRAQFDLQKLVKHYTEHADGLCHKLTTVCPTVKPQTQGLAKDAWEIPRESLRLEVK  
 LGQGCDFGEVWMTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKLRHDKLVPL YAVVSEEPYIVTEFMS  
 KGSLLDFLKEGDGKYLKLPQLVDMAAQIADGMAYIERMNYIHRDLRAANILVGENLICKIADFGLARLIE  
 DNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILQTELVTKGRVPYPGMVNREVLEQVERGYRMP  
 CPQGCPESLHELMNLCKWKDPDERPTFEYIQSFLEDYFTATEPQYQGENL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9010\\_b03.zip](https://cdn.origene.com/chromatograms/mm9010_b03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_009535

**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\\_009535.3](#), [NP\\_033561.1](#)
**RefSeq Size:** 4608 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 22612

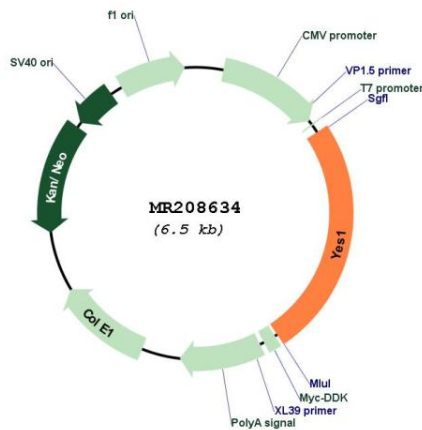
**UniProt ID:** [Q04736](#)

**Cytogenetics:** 5 17.33 cM

**MW:** 61.1 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 EGFR, 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 MR208634