

Product datasheet for **MG208634**

Yes1 (NM_009535) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yes1 (NM_009535) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Yes1
Synonyms:	p61-Yes; Yes
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208634 representing NM_009535
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCATTAAGTAAAGAAAACAAAAGTCCAGCCATAAAATACACACCGGAAAATCTTACAGAGC
 CTGTAAGCCCAAGTGCCAGTCATTATGGAGTGGAAACATGCTACAGTTGCCCGACCTCTCCACAAGGG
 AGCATCAGTTAATTTAACAGTCTTTCCATGACACCCTTTGGAGGGTCTCAGGGGTGACTCCTTTTGA
 GGAGCGTCTTCTCATTCTCAGTGGTGTCAAGTTCATATCCTACAGGTTTAAACAGGTGGTGTCACTATAT
 TTGTGGCCTTGTATGATTATGAAGCTAGAAGTACAGAAGACCTTTCTTTAAGAAGGGTGAACGATTTCA
 AATAATTAACAATACGGAAGGAGACTGGTGGGAAGCAAGATCAATTGCTACCGGAAAAGAGTGGTTATATC
 CCTAGCAATTACGTAGTGCCTGCAGATTCATTACGGCAGAAGAATGGTATTTTGGCAAAATGGGGAGAA
 AAGATGCGGAAAGATTACTTCTGAATCCTGGGAATCAGCGAGGTATTTTCTTAGTAAGAGAAAGTAAAC
 TACTAAAGGTGCTTACTCCCTCTCAATCCGTGATTGGGATGAGGTGAGGGGTGACATGTGAAGCATTAC
 AAGATCAGAAAACCTTGACAATGGTGGCTACTACATCACGACCAGAGCTCAGTTTGATACACTGCAGAAGC
 TGGTGAAGCACTACAGAACATGCTGATGGATTATGCCACAAGTTAACAACGTGTGTCTACTGTGAA
 ACCCCAGACTCAAGGTCTGGCAAAGATGCTTGGGAAATCCCTCGAGAATCATTGCGACTAGAGGTGAAA
 CTAGGTCAAGGATGCTTTGGGAAAGTGGATGGGAACATGGAATGGAACACAAAAGTAGCAATCAAAA
 CACTAAAGCCAGGTACAATGATGCCAGAAGCATTCCTTCAAGAAGCTCAGATAATGAAAAAGCTAAGACA
 CGATAAAGTGTCCACTCTATGCAGTTGTTTCTGAAGAGCCATTTATATTGTCACCGAGTTTATGTCA
 AAAGGAAGCTTGTAGATTTCTTAAAGAAGGAGATGAAAAGTATTTGAAGCTTCCACAGCTGGTTGATA
 TGGCTGCTCAGATCGCTGATGGCATGGCGTATATTGAAAGAATGAACTATATTCACCGAGATCTCCGAGC
 TGCTAATATTCTGTAGGAGAAAATCTTATATGCAAAAATAGCAGATTTTGGCTTAGCAAGATTAATTGAA
 GACAATGAATACACGGCAAGACAAGGTGCAAAAATTTCCAATCAAGTGGACAGCTCCTGAGGCTGCTCTGT
 ATGGTCGATTTACAATAAAGTCAGATGTGTGGTCAATTTGGAATCTACAGACAGAGCTGGTAACAAAAGG
 AAGAGTGCATATCCAGGTATGGTAAACCGTGAAGTATTGGAACAAGTAGAGCGGGGATACAGAATGCCCT
 TGCCCCAGGGCTGTCCCGAATCCCTCCATGAATTGATGAATCTTTGCTGGAAGAAGGATCCTGATGAAA
 GACCAACATTTGAATATATTCAGTCCTTCTTGAAGACTACTTCACTGCTACAGAGCCACAGTACCAACC
 AGGAGAAAATTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208634 representing NM_009535
 Red=Cloning site Green=Tags(s)

MGIKSKENKSPAICYTPENLTPEVSPSASHYGVHATVAPTSSTKGASVNFNSLSMTPFGSSGVTPFG
 GASSFSVSSSYPTGLTGGVTIFVALYDYEARITTEDLSFKKGERFQIINNTEGDWWEARSIAATGKSGYI
 PSNYVVPADSIQAEWYFGKMRKDAERLLLNPQNQRGIFLVRESETTKGAYSLSIRDWDEVRGDNVKHY
 KIRKLDNGGYYITTRAQFDLQKLVKHYTEHADGLCHKLTTVCPTVKPQTQGLAKDAWEIPRESLRLEVK
 LGQCGFGEVWMTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKLRHDKLVPLVAVVSEEPYIVTEFMS
 KGSLDLFLKEGDGKYLKLPQLVDMAAQIADGMAYIERMNYIHRDLRAANILVGENLICKIADFGLARLIE
 DNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILQTELVTKGRVPYPGMVNREVLEQVERGYRMP
 CPQGCPELHELMNLCKKDPDERPTFEYIQSFLEDYFTATEPQYQGENL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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:	<ol style="list-style-type: none">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
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]