

Product datasheet for **RG240205**

RICTOR (NM_001285439) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RICTOR (NM_001285439) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RICTOR
Synonyms:	AVO3; hAVO3; PIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240205 representing NM_001285439. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCGATCGGCCGCGGCCGCTCTCTGAAGAACCTCCGAGTACGAGGGCGGAATGACAGCGCGGAG
GAGAACGTCCCGCTGGATCTGACCCGAGAACCTTCTGATAACTTAAGAGAGATTCTCCAAAATGTGGCC
AGATTGCAGGGAGTATCAAATATGAGAAAGCTAGGCCATCTGAATAACTTTACTAAGCTTCTTTGTGAT
ATTGGCCACAGTGAAGAAAAGTGGGCTTTCCTACTATGAGGATATCATAATTTGTTTGGGTTAGCTTTA
TTAAATGAAGCAAAGAAGTGCAGCAGCAGGGCTACGAGCGCTTCGATATCTCATCCAAGACTCCAGT
ATTCTCCAGAAGGTGCTAAAATTGAAAGTGGACTATTTAATAGCTAGGTGATTGACATACAACAGAGC
AACGAGGTAGAGAGGACACAAGCACTTCGATTAGTCAGAAAGATGATTACTGTGAATGCTTCCTTGT
CCTAGTCTGTGACCAACTCATTAAATTGCAAGTTGAAATGATGGACTTCAAGAAAGAGACAGAATGGTC
CGAGCATGCATTGCCATTATCTGTGAACAGCACTTCAGAATCCAGAGGTGGTGGCCCTTCGAGGTGGA
CTAAACACCATCTTGAAAAATGTGATCGATTGCCAATTAAGTCGAATAAATGAGGCCCTAATTACTACA
ATTTTGCACCTTCTTAATCATCCAAGACTCGACAGTATGTGCGAGCTGATGTAGAATTAGAGAGAATT
TTAGCACCTATACTGATTTTCACTACAGACATAGTCCAGATACAGCTGAAGGACAGCTCAAAGAAGAC
AGAGAAGCAGGATTTCTAGCCAGTAAAAATGGGAATCATAGCAACATTCGATCATGGGCAGGTATTATT
AATTTATGTAAACCTGGAATTTCTGGGATCCAGTCTCTAATAGGAGTACTTTGCATACCAAAATATGGAA
ATAAGGCGAGGTCTACTTGAAGTCTTTATGATATATTTTCGCTTCTCTACCTGTTGTGACTGAGGAG
TTCATAGAAGCACTACTCAGTGTAGATCCAGGGAGGTTCCAAGACAGTTGGAGGCTTTCAGATGGCTTT
GTGGCAGCTGAGGCAAAAATTTCTTCTCATCGTGCCAGATCCAGGCCAGACCTCATGGATAATTAT
TTGGCACTGATACTCTCTGCATTTATTCGTAATGGACTTTTAGAGGGTCTAGTTGAAGTGATAACAAAC
AGTGATGATCATATCTCAGTTAGAGCTACCATCCTTTTAGGAGAGCTTTTACATATGGCAAAACAAATT
CTTCTCATTACATAGCCATCATTACACTGCTTGCCAACCCTAATGAATATGGCTGCATCCTTTGAT
ATCCCAAGGAAAAGAGACTGCGAGCCAGTGCAGCCTTGAAGTGTAAAACGCTTCCATGAAATGAAG
AAACGAGGACCTAAGCCTTATAGTCTTCATTTAGACCACATTATTCAGAAAGCAATTGCAACACACCAG
```



[View online »](#)

AAACGGGATCAGTATCTCCGAGTTCAGAAAAGATATATTTATCCTTAAGGATACAGAGGAAGCTCTTTTA
 ATTAACCTTAGAGATAGCCAAGTCTTCAACATAAAGAGAATCTTGAATGGAATTGGAATCTTATAGGG
 ACCATTCTTAAGTGGCCAAATGTAAATCTAAGAACTATAAAGATGAACAGTTACACAGGTTGTACGA
 AGACTACTTTATTTTACAAGCCAGCAGTAAATATATGCCAACCTGGATCTGGATTTTGCCAAGGCC
 AAACAGCTCACGGTTGTAGGTTGCCAGTTACAGAATTTCTTCTGAATCTGAAGAGGATGGGCAAGGC
 TACTTAGAAGATCTAGTAAAGGATATTGTTCACTGGCTCAATGCTTATCTGGAATGAAACCCGAAA
 AGTCTTCAAATAATGGTTTATTGACCACCTTAGTCAACTACTTTTTATTTATTGGAACACTTTCT
 TGCCACCCTCATGGAGTTAAAATGCTGGAAAAATGCAGTGTATTTCACTGCTCCTTAATCTTTGCTCC
 TTGAAAAACCAAGATCACTTGCTAAAACCTACTGTTTCTAGCTTGGACTATAGCAGAGATGGATTGGCT
 AGAGTCATCCTTTCCAAAATTTAACTGCAGCTACTGATGCCTGCAGACTCTATGCAACAAAACATTTA
 AGGGTATTATTGAGAGCTAATGTTGAATCTTTAATAATTGGGGAATTGAGTTGTAGTGACCCAGCTA
 CATGATAAAAACAAAACGATTTCTCTGAAGCTCTTGATATCCTCGATGAAGCATGTGAAGACAAGGCC
 AATCTTCATGCTCTCATTAGATGAAACCAGCGTTATCCACCTTGAGACAAGGGTTTGCTTCTCTG
 CTGAGATTTCTCTCCATCCAAAAGGATTTTCTATCTGAATGAAAGAGGTTATGTAGCAAAAACATTTG
 GAAAAGTGGCACAGGGAATACAACCTCAAATATGTTGACTTGATTGAGGAACAACCAATGAAGCACTT
 ACTACTTACCGGAAGCCTGTTGATGGTGATAACTATGTTGCTCGGAGTAACCAAAGATTACAGCGTCT
 CACGTCTACCTGCCTATACACCTTTATGGACAACCTAGTACACCATAAAAACAGGCTGCCATTTGTTGGAA
 GTACAGAATATTATTACAGAACTCTGTCGTAATGTTTCGTACACCAGATTTGGATAAGTGGGAAGAAATT
 AAAAAACTGAAAGCATCTCTTTGGGCTTGGGAAATATCGGCTCATCAAATGGGGTCTCAATTTGCTA
 CAGGAAGAAAACGTGATTCCAGATATACTAAAACCTGCAAAACAGTGTGAAGTTCTTTCCATCAGAGGG
 ACCTGTGTATATGTAAGTGGGCTCATAGCTAAAACCAACAAGGCTGTGATTTCTAAAATGTACAAC
 TGGGAGCTGTGAGGCATAGTCGCAACATCTGTGGCCAGTGGTCCAGATGATGTGGAACAACCTGT
 AATGAACCTTCTATCTCAACCAAGCACTAAGTTTGAACCTCGGAGTCAACCAGCTAGACATAAATAGT
 GAAAGTGAATCTGTGCCATCGAGTATGTTCAATTTGGAGGATGACCGGTTTGGCAGCAGCTACTACTAGT
 ACATTTTTCTTGATATCAATGAAGATACAGAGCCAACATTTTATGACCGATCTGGACCCATAAAGGAT
 AAAAAATTCATTCCCTTTCTTTGCTTCTAGTAAACTTGTGAAGAATCGTATCTTAAATTCGCTTACTTTG
 CCTAACAAAAACATCGTAGTAGCAGTATCCTAAAGGAGGGAAATTCATCTGAAAGTAAAGACAAGC
 AACAGGCGAATCAGAACACTACGGAGCCAGTGTGATTTTAAATCATAGTATGATTTTACACCCATA
 TCCACTGTACAGAAAACATTACAATTAGAGACTTCAATTTATGGGGAATAAGCACATTGAAGACACTGGT
 AGTACACCAAGCATTGGAGAAAAAGTACTAAAATTCACCAAGAATTTTGGTACAGAGAATCACAGAGAA
 AATACAAGCCGAGAGAGGTTAGTAGTAGAAAGTCAACGAGCTCACATATGAAGATACGTAGCCAAAGT
 TTCAATACAGACACTACAACAAGTGGCATAAAGTTCAATGAGCTCAAGTCCTTACAGAGAGACAGTAGGT
 GTAGATGCTACAACATATGGACACAGACTGTGGAAGCATGAGTACTGTGGTAAAGTACTAAAACATTAAG
 ACAAGCCACTATTTGACGCCACAGTCTAACCATCTGTCTCTCTCCAAATCAAATTCGGTGTCCCTGGTG
 CCTCCAGGTTCTTCTCATACGCTTCTAGAAAGAGCACAGTCCCTTAAAGCACCTCTATTGCTACAATT
 AAAAGTCTAGCAGATTGTAACCTTAGTTACACAAGTCTAGAGATGCTTTTGGCTATGCTACTGAAA
 AGACTACAGCAACAAAGAATGCATCCATCCTTATCTCACTCTGAAGCTTTGGCATCTCCAGCAAAAGT
 GTGCTATTTACTGATACCATCACCATGAAGGCCAACAGTTTTGAGTCCAGATTAACACCAAGCAGGATC
 GATTTTAAAAAGAAGCATGTGCGGGGAATCAGGAGCTTAAAGACCTACAATAACAAACAACCTTTTTCAGG
 TTCATGAAAGCCTTAAGTTATGCATCATTAGATAAAGAAGATTTATTGAGTCTATTAATCAAATACC
 CTGCAACGATCTTCTCAGTGGGTCATGGTGTCCAGTCCACATATGGGGTTTCAAGTATTACATT
 GGTCTTGTCTCCCGTGGATATAAATGATATATTCCAGGTAAGGATATTCCCTATTTTTCAGACAAAA
 AACATACCACCACATGATGATCGAGGTGCAAGAGCATTGCCCCATGATGCAGGAGGTCTTCCATCTGGA
 ACTGGAGGTCTTGTAAAAAATCTTTTCACTTGTACGACAGCAGATGAGTCTTACGAAAATATGAAT
 TCAATCCATTAGATGCCTCTGTGTTTTAGAAAGTACAGAAGACTGGACTACAGGAACATACAGAT
 GATAACTGCCTTTATTGTGTCTGTATTGAAATTTCTGGGTTTCCAGCCAGCAACCAACTGAGTGAATA
 TGTAGTCACTCAGACTTTCAAGATATCCATATCTGATTGGTGTGAGCAGACTATCCATATCCTTTA
 GAAGTGGTCCCTCTAAGTTTTTCGGGGATTTCTGGATGCAGTGTGGGGTGTCTCAAGAAGGCTCAGCT
 AGCAGCACAAAAGCACAGAATTGTTACTAGGTGTTAAAACAATTCAGATGATACACCAATGTGCCGT
 ATACTCCTTCGCAAGAAGTCTAAGATTAGTCATTAATTTGAGTAGTTCAGTTTCAACTAAATGTCAT
 GAGACTGGGCTTTTAAACAATTAAGGAGAAGTATCCTCAAACATTTGATGACATATGCCTTTACTCTGAG
 GTTCCCATTTGCTGTACACTGCACATTCAGACTCCGTGTGGAGGTTTATACAAGAATTTATTTCAA

GATGTACAGTTTCTACAAATGCATGAAGAAGCAGAGGCTGTGTTGGCAACACCACCAAAGCAACCTATA
 GTTGATACATCTGCTGAATCC
 ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG240205
 Blue=ORF Red=Cloning site Green=Tag(s)

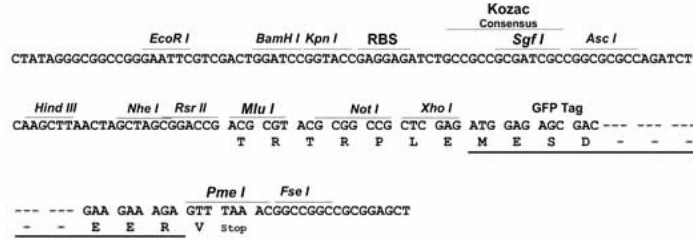
MAAIGRGRSLKNLRVGRNDSGEENVPLDLTREPNDLREILQNVARLQGVSNMRKLGHLNFTKLLCD
 IGHSEEKLGPHYEDIICLRLLALLNEAKEVRAAGLRALRYLIQDSSILQKVLKLVKDYLIARCIDIQQS
 NEVERTQALRLVRKMITVNASLFPSSVTNSLIAVGNLQERDRMVRACIAIICELALQNPVVALRGG
 LNTILKNVIDCQLSRINEALITLHLLNHPKTRQYVRADVELERILAPYDFHYRHSPDTAEGQLKED
 REARFLASKMGIATFRSWAGIINLCKPGNSGIQSLIGVLCIPNMEIRRGLEVLVYDFRPLPVVTEE
 FIEALLSVDPGRFQDSWRLSDGFVAEAKTILPHRARSRPDLMDNYLALILSAFIRNGLLEGLVEVITN
 SDDHISVRATILLGELLMANTILPHSHSHLHCLPTLMNMAASFIPKEKRLASAALNCLKRFHEMK
 KRGPKPYSLHLDHIIQKAIATHQKRDYLRVQKDFILKDTTEALLINLRDSQVLQHKENLEWNNLIG
 TILKWPVNLNRYKDEQLHRFVRRLLYFYKPSKLYANLDFAKAKQLTVVGCQFTEFLLESEEDGQG
 YLEDLVKDIVQWLNASSGMKPERSLQNNGLLTLSQHYFLFIGTLSCHPHGVKMLEKCSVFQCLNLC
 LKNQDHLKLVSSLDYSRDGLARVILSKILTAATDACRLYATKHLRVLLRANVEFFNNGWIELLVTQL
 HDKNKTISSALDILDEACEDKANLHALIQMKPALSHLGDGKLLLLLRFSLIPKGFSYLNERGYVAKQL
 EKWHREYNSKYVDLIEEQLNEALTTYRKPVDGDNVRRSNQRLQRPHVYLPILHYQLVHHKGTGCHLLE
 VQNIITELCRNVTPDLKWEIEKIKKASLWALGNIGSSNWGLNLLQEENVIPDILKLAQCEVLSIRG
 TCYYVGLIAKTKQCDILKCHNWDVHRSRKHLWPVVPDDVEQLCNELSSIPSTLSLNSESTSSRHNS
 ESESVSSMFILEDLDRFGSSSTSTFFLDINEDTEPTFYDRSGPIKDKNSFPFFASSKLVKNRILNSLTL
 PNKKHRSSSDPKGGKLSSESKTSNRRIITLTPESVDFNHSDDFTPISTVQKTLQLETSMGNKHIEDTG
 STPSIGENDLKFTKNFGTENHRENTSRERLVEESSTSSHMKIRSQSFNTDTTSGISSMSSSPSRETVG
 VDATTMDTDCGSMSTVVSTKTIKTSHYLTPQSNHLSLSKNSVSLVPPGSSHTLPRRAQSLKAPSIATI
 KSLADCNFSYTSRDAFYATLKRLQQRMHPSLSHSEALASPAKDVLFDTITMKANSFESRLTPSRI
 DFKKKHVGGIRSLRPTITNNLFRFMKALSYASLDKEDLLSPINQNTLQRSSSVRSMVSSATYGGSDDYI
 GLALPVDINDIFQVKDIPYFQTKNIPPHDDRGAFAHDAGGLPSGTGGLVKNSFHLLRQMSLTEIMN
 SIHSDASLFLESTEDTGLQEHTDDNCLYVCIEILGFQPSNQLSAICSHSDFQDIPYSDWCEQTIHNPL
 EVVPSKFGISGCSGDVSGEASSTKSTELLGVKTIIPDDTPMCRILLRKEVLRVLINLSSSVSTKCH
 ETGLLTIKEKYPQTFDDICLYSEVSHLLSHCTFRLPCRRFIQELFQDVQFLQMHEEAVALTPPKQPI
 VDTSAES
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

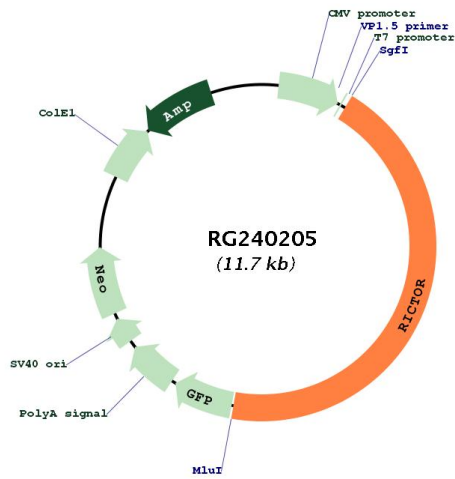
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001285439
ORF Size:	5196 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).
RefSeq:	NM_001285439.1 , NP_001272368.1
RefSeq Size:	9629 bp
RefSeq ORF:	5199 bp
Locus ID:	253260
UniProt ID:	Q6R327
Cytogenetics:	5p13.1
Protein Pathways:	mTOR signaling pathway
MW:	195.5 kDa
Gene Summary:	RICTOR and MTOR (FRAP1; MIM 601231) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth (Sarbasov et al., 2004 [PubMed 15268862]).[supplied by OMIM, Mar 2008]