

Product datasheet for **RG228560**

CASS4 (NM_001164114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASS4 (NM_001164114) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CASS4
Synonyms:	C20orf32; CAS4; HEFL; HEPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG228560 representing NM_001164114
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGAACAGGCATCATGGACTGTGCGCCCAAGGCACTCCTGGCCAGGGCACTTTATGACAACCTGCC
 CTGACTGCTCTGACGAGCTGGCTTTACGACAGAGGGGACATCCTGACCATTTCTGGAGCAACACGTGCCAGA
 AAGCGAGGGTTGGTGGAAGTGTTTGCTCCATGGGAGGCAAGGCCTGGCCCTGCCAACCGCTCCAAATC
 CTCACGGAGGTCGCTGCAGACAGGCCGTGCCCCCATTCTGAGAGGCCTGGAAGAAGCTCCTGCCAGCT
 CAGAGGAGACCTATCAGGCCATCCTCACGCTTCCAGACCTGTCCGGGCCTCACTGCCGACTCTGCCTTC
 CCAGGTGTATGACGTGCCTACCCAGCACCGGGGCCCCGTGGTCTGAAGGAGCCAGAGAAGCAGCAGTTA
 TATGACATACCAGCCAGCCCCAAGAAGGCAGGACTCCATCCCCAGACAGCCAAGCAAGTGGCAGGGTG
 TTCCCCTGATATCAGTGACTACCTTAAGAAGAGGCGGTTACAGCACATTACCAAACTCTCAGAAATCGGA
 ATGGATTTATGACTCCAGTGTCTCCAGGAAAGGCCAGCGTCAGAAACACGCCTCTCACCAGCTTTGCG
 GAAGAATCAAGGCCCCAGCTCTCCCAGTTCCAGCTCCACTTTCTACAATCCTCCAAGTGGCAGATCCA
 GGTCCCTCACTCCACAATGAATAACAATGTGCCCATGCAGAAAAAACTCAGCCTTCAGAAATTCCTTC
 TTATGGCTTTCTTGATACCCAGAGGCACATTTCTTTGGATGAAGATGTCAGCTACAAGGTTCTTCAAGC
 TTTCTGATTCCCCGAGTGAACAGCAGAACACCAAGCCCAATATTTATGACATCCCTAAAGCAACGTCGA
 GTGTTTCTCAGGCTGGGAAGGAGCTGGAGAAAGCAAGGAGGTGTGAGAGATTCGCGGGCCATAATTC
 CTCATGGTTCTCAGACGGACAACCTTCCCCTCTCCTGAACCGGACAGATTATCAGGTTCCAGTTCTGAC
 AGCAGAGCTAGCATCGTTTCTCGTGCTCCACCACATCCACCGACGACTCCTCCAGCTCTTCTCGGAGG
 AGTCAGCAAAGGAGCTCTCCTTGACCTGGATGTGGCCAAGGAGACAGTATGGCTCTGCAGCACAAGGT
 GGTGAGCTCTGTGCTGGCTGATGCTCTTTGTACAGCAGGAAGTGGAGATTCAGAGACTATCTGGAGGCC
 AACATTGATGCAATCCACAGGTCCACTGATCACATAGAAGAATCTGTAAGAGAATTTCTGGATTTTGCC
 GAGGAGTCCATGGGACTGCCTGTAACCTCACTGACAGTAACCTTCAGAACAGAATTCGGGACCAGATGCA
 GACCATCTCCAATCCTACCGCATCCTGCTTGAACAAAGGAAAGCTTGGATAATCGCAATTGGCCTCTG
 GAAGTTCTTGACTGACAGTGTCCAGAACAGCCAGATGACCTTGAGAGGTTTGTATGGTGGCACGGA
 TGCTTCCAGAAGACATCAAGAGGTTTGCTCCATTGTCATTGCCAATGGAAGGCTCTTTTTAAGCGGAA
 CTGTGAAAAGGAAGAGACTGTGAGTTGACCCCAATGCAGAATTAAGTGTGAAAAATACATCCAGCCT
 CCCCAGAGAGAACTGAATCACACCAAAAGAGTACCCCTTCCACTAAGCAAAGGGAAGATGAACACTCTT
 CTGAACTATTAAGAAAAATAGGGCAAATATCTGTGGACAGAATCCTGGCCCTCTTATACCTCAGCCTTC
 GAGTCAACAGACTCCTGAGAGGAAACCCGCTTATCTGAACACTGCCGGCTCTACTTTGGGGCGCTCTTC
 AAAGCCATCAGCGCATTTACGGCAGCCTCAGCAGCAGCCAGCCGCGGAGATCATCACTCAGAGCAAGC
 TGGTCATCATGGTGGGACAGAAGCTGGTGGACAGCTGTGCATGGAGACCCAGGAGGGGACGTGCGCAA
 CGAGATCCTCCGTGGCAGCAGTCACTCTGCAGCCTGTCAAGGACGTAGCGTGGCCACTAAGAATGCC
 GTGCTCACGTACCCAGCCCTGCCGCGCTGGGGCACCTCCAGGCGGAGGCTGAGAAGCTGGAGCAACACA
 CGCGGCAGTTCAGAGGGACACTGGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228560 representing NM_001164114
 Red=Cloning site Green=Tags(s)

MKGTGIMDCAPKALLARALYDNCPCDSELAFSRGDILTILEQHVPSEGWKCLLHGRQGLAPANRLQI
 L TEVAADRPCPPFLRGL EEAPASSEETYQAILTLPRPVRASLPTLPSQVYDVPTQHRGPVVLKEPEKQQL
 YDIPASPKKAGLHPPDSQASGQGVPLISVTTLRGGYSTLPNPQKSEWIYDTPVSPGKASVRNTPLTSFA
 EESRPHALPSSSSTFYNNPSGRSRSLTPQLNNVPMQKKLSLPEIPSYGFLVPRGTFPLDEDVSYKVPSS
 FLIPRVEQQNTKPNYDIPKATSSVSQAGKELEKAKEVSENSAGHNSSWF SRRTTSPSPEPDRLSGSSSD
 SRASIVSSCSTTSTDSSSSSSSEESAKELSLDLVAKETVMALQHKVSSVAGLMLFVSRKWFRDYLEA
 NIDAIHRSTDHIEESVREFLDFARGVHGTACNL TDSNLQNRIRDQMOTISNSYRILLETESLDNRNWPL
 EVLVTDSVQNSPDDLRFVMVARMLPEDIKRFASIVIANGRLLFKRNCEKEETVQLTPNAEFKCEKYIQP
 PQRETESHQKSTPSTKQREDEHSELLKKNRANICGQNPGLIPQPSQQTPERKPRLSEHCRLYFGALF
 KAISAFHGLSSSQPAEII TQSKLVIMVGQKLVDTLCMETQERDVRNEILRGSSHLCSLLKDVALATKNA
 VLTYPSPAALGHLQAEAEKLEQHTRQFRGTLG

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164114

ORF Size: 2196 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_001164114.2](#)

RefSeq Size: 2993 bp

RefSeq ORF: 2199 bp

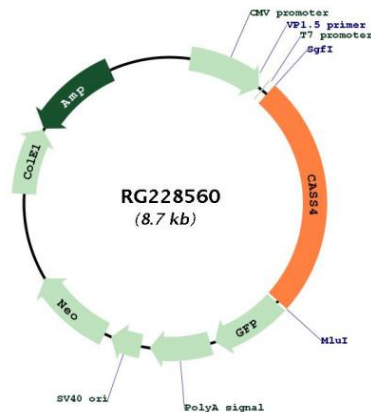
Locus ID: 57091

UniProt ID: [Q9NQ75](#)

Cytogenetics: 20q13.31

Gene Summary: Docking protein that plays a role in tyrosine kinase-based signaling related to cell adhesion and cell spreading. Regulates PTK2/FAK1 activity, focal adhesion integrity, and cell spreading. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG228560