

Product datasheet for **RG234531**

TSPEAR (NM_001272037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSPEAR (NM_001272037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSPEAR
Synonyms:	C21orf29; DFNB98; ECTD14; TSP-EAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG234531 representing NM_001272037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTTCCAGCATCCAGGATTTTCTCCAGTGTGACCTCTTCCCTGAAGAATTTCCATCGTCGTAA
 CTTTGAGAGTTCCAATCTTCCACCCAAGAGGAACGAGTACCTGCTGACGGTGGTGGCAGAGGAGAGCGA
 CCTGCTGCTGCTCGGCTGCGGTTGTACCTGCCAGCTGCACTTCTGTTCCTTCGCGAGGACACGGCC
 GGCGCCTGGCAGACCCGAGTGTCTTCCGAGCCCGGCCCTGGTGGATGGCCGCTGGCACACACTGGTCC
 TGGCTGTGTCCGAGGCGTCTTCTCCCTCACCAGGACTGCGGCCTCCCGGTGGACATAATGGCCGATGT
 GCCCTTCCAGCCACCCTGTGAGTGAAGGAGCTCGATTCTTCGTCGGCAGCCGGAGGAGAGCCAAAGGC
 CTGTTTCATGGGACTGGTGAAGCACTGGTCTGCTGCCGGGCTCAGACGCCACCCCAAGGCTGTGTCCA
 GCAGGAACGCCCGCTGGCGGTGTGTCCATCCACGGGTCTGCAGGCTCTACGGGGAAGCCAGAAGA
 TAACGAGGTGCTAAAATATCCCTATGAAACCAACATTCGAGTGACGCTGGGACCCAGCCACCGTGTACC
 GAGGTGGAAGACGCCAGTTCTGGTTTGATGCCAGCCGGAAGGGCTGTATCTGTGTGTTGGCAACGAGT
 GGGTCTCCGTGTTAGCAGCCAAAGAAAGACTGGACTACGTGGAGGAGCATCAGAATTGTCCACCAACTC
 AGAGACCTGGGATTGAGGTGTTCCGCATCCCTCAGGTGGGGCTCTTTGTGGCCACAGCCAATCGCAA
 GCCACATCCGCCGTCTACAAGTGGACCGAAGAGAAGTTCGTCTCATATCAGAATCCCCACGCACCAAG
 CACAGGCTGGAGGATTTACCATCGGAAAAAGATCTTCTGGCAGTGGCTAATTTTGAACAGATGA
 GAAGGGTCAGGAGTTCTGTGTCATTTACAAATGGAGCCACAGAAAGCTGAAGTTTACCCCATATCAGAGC
 ATTGCCACACACAGCGCCCGAGACTGGGAGGCTTCGAGGTGGATGGGGAGCACTTCTGGCGGTGGCCA
 ACCACCGGAAGGCGACAACCAACATCGACAGTGTCTCTACAAGTGAACCCGGCAACCCGGCTCTT
 CGAGGCCAACGAGCATCGCCACCTCCGGCGCCTACGACTGGGAGTTCTTCAGTGTGGGGCCCTACTCG
 TTCTGTGTGGTGGCAACACCTTCAACGCACCTCCACCAAGGTGCACTCGCACCTCTACATCCGACTCC
 TGGGCTCCTTCCAGCTCTTCCAGTCTTCCCGACGTTCCGTGCTGCAGACTGGGAGGTCTTCCAGATCGG
 GGAGAGGATCTTCTCGCTGTGGCAAACAGTCACAGCTACGATGTGGAGATGCAAGTCCAGAATGATTCC
 TATGTCATCAACTCCGTCATCTACGAGCTGAACGTGACCGCGCAGGCTTTGTCAAGTTCAGGACATTC
 TCACCTGCAGTGTCTGGACTGGGAGTTTTTCTCGGTGGGAGAAGATTATTTCTGGTGGTGGCCAACTC
 CTTGATGGGCTACCTTCTCGGTGAACAGTATTATTTACAGGTGGCAGGGCTACGAGGCTTCGTGGCG
 GTGCACAGCTCCCAACCGTCCGCTGCAGGACTGGGAGGCTTCAGCACACGGCTGGTGCCTACCTCA
 TCTACTCCAGCGCAAGGAGCCCTCTCCAGGGTCTCGGCTGAGGACACGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234531 representing NM_001272037
 Red=Cloning site Green=Tags(s)

MSFPASRIFSQCDFPPEFSIVVTLRVPNLPPKRNEYLLTVVAEESDLLLLGLRLSPAQLHFLFLREDTA
 GAWQTRVSFRSPALVDGRWHTLVLAWSAGVSLTTDCGLPVDIMADVFPFATLSVKGARFFVGSRRRAKG
 LFMGLVRQLVLLPGSDATPRLCPSRNAPLAVLSIPRVLQALTGKPEDNEVLKYPYETNIRVTLGPQPPCT
 EVEDAQWFDASRKGLYLCVGNWVSVLAAKERLDYVEEHQNLSTNSETLGIQVFRIPQVGLFVATANRK
 ATSAVYKWTEEFVSYQNIPTHQAWRHFTIGKKIFLAVANFEPDEKGQEFVSVYKWSHRKLKFTPYQS
 IATHSARDWEAFEDGHEFLAVANHREGDNHNIDSVIYKWNPATRLFEANQTIATSGAYDWEFFSVGPYS
 FLVVANTFNGTSTKVHSHLYIRLLGSFQLFQSFPTFGAADWEVFQIGERIFLAVANSHSYDEMVMQVQND
 YVINSVIYELNVTQAQAFVKFQDILTCSALDWEFFSVGEDYFLVVANSFDGRTFSVNSIIYRWQGYEGFVA
 VHSLPTVGCARDWEAFSTTAGAYLIYSSAKEPLSRVLRRLRTR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001272037

ORF Size: 1803 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_001272037.2](#)

RefSeq Size: 4042 bp

RefSeq ORF: 1806 bp

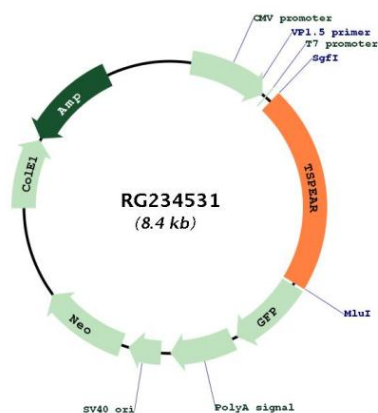
Locus ID: 54084

UniProt ID: [Q8WU66](#)

Cytogenetics: 21q22.3

Gene Summary:

This gene encodes a protein that contains a N-terminal thrombospondin-type laminin G domain and several tandem arranged epilepsy-associated repeats (EARs). A mutation in this gene is the cause of autosomal recessive deafness-98. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:


Circular map for RG234531