

Product datasheet for **RG216516**

TSPEAR (NM_144991) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



ORF Nucleotide Sequence: >RG216516 representing NM_144991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCGCTGCTGAGTCTGTGTTTGTGCTGCCCTGGCGGCCCGGCCACGGCACGCAGGGTTGGG
 AGCCCTGCACAGACCTGCGCCCTGGACATCCTGGCGGAAGTGGTCCCTTCTGATGGCGCCACAAGCGG
 GATCAGGATAGTTCAAGTTACGGTGCACGGGACTCCAGCTCTCAGTAGCCGCCCCCGCACCATGAGC
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 GAGTTCCCAATCTTCCACCAAGAGGAACGAGTACCTGCTGACGGTGGTGGCAGAGGAGAGCGACCTGCT
 GCTGCTCGGGCTGCGGTTGTACCTGCCAGCTGCACCTTCTGTTCTTCCGAGGACACGGCCGCGGCC
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 GCAGTGTCTGGACTGGGAGTTTTTCTCGGTGGGAGAAGATTATTTCTGGTGGTGGCAACTCCTTCGA
 TGGCGGTACCTTCTCGGTGAACAGTATTATTTACAGGTGGCAGGGCTACGAGGGCTTCGTGGCGGTGCAC
 AGCCTCCCCACCGTCCGCTGCAGGACTGGGAGGCCTTCAGCACCACGGCTGGTGCCTACCTCATCTACT
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

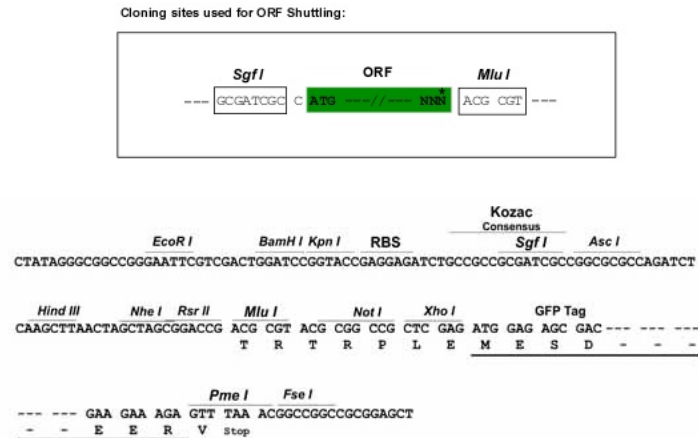
Protein Sequence: >RG216516 representing NM_144991
 Red=Cloning site Green=Tags(s)

MSALLSLCFVLPLAAPHGHTQGWEPTDLRPLDILAEVPSDGSIRIVQVHGARGLQLSVAAPRTMS
 FPASRIFSQCDFPEEFSIVVTLRVPNLPPKRNEYLLTVVAEESDLLLLGLRLSPAQLHFLFLREDTAGA
 WQTRVSFRSPALVDGRWHTLVLAVSAGVSLTTDCGLPVDIMADVPFPATLSVKGARFFVGSRRRAKGLF
 MGLVRQLVLLPGSDATPRLCPSRNAPLAVLSIPRVLQALTGKPEDNEVLKYPYETNIRVTLGPQPCTEV
 EDAQFWFDASRGLYLVCVNEWVSLAAKERLDYVEEHQNLSTNSETLGIEVFRIPQVGLFVATANRKAT
 SAVYKWTEEFVSYQNIPTHQAWRHFTIGKKIFLAVANFEPDEKQGEFSVIYKWSHRKLKFTPYQSLA
 THSARDWEAFEVDGEHFLAVANHREGDNHNIDSVIYKWNPATRLFEANQTIATSGAYDWEFFSVGPYSFL
 VVANTFNGSTKVHSHLYIRLLGSFQLFQSFPTFGAADWEVFQIGERIFLAVANSHSYDVEMQVQNDYSY
 INSVIYELNVTAQAFVKFQDILTCSALDWEFFSVGEDYFLVVANSFDGRTFSVNSIIYRWQGYEGFVAHV
 SLPTVGCRDWEAFSTTAGAYLIYSSAKEPLSRVLRRLRTR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144991

ORF Size: 2007 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144991.3](#)

RefSeq Size: 3980 bp

RefSeq ORF: 2010 bp

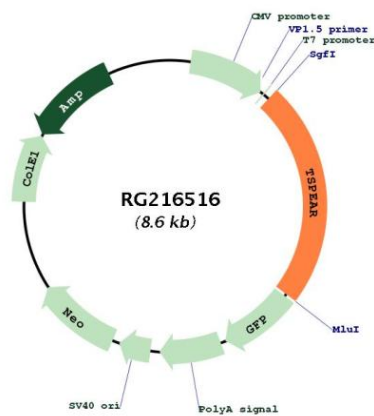
Locus ID: 54084

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 RG216516