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Product datasheet for RG224210

PHEMX (TSPAN32) (NM_139022) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHEMX (TSPAN32) (NM_139022) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHEMX
Synonyms:	ART1; PHEMX; PHMX; TSSC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG224210 representing NM_139022
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCCTACCTCCTGGGCAGTGAGCTGCGGTCTGAGGCCCCTGCCCAGCTGGAAACCACAGGGAGGGG
AAGGGAGGGGAGGAGAGGAGAGGAGAGGAACCGTCATGGGGCCTTGGAGTCGAGTCAGGGTTGCCAAATG
CCAGATGCTGGTCACCTGCTTCTTTATCTTGCTGCTGGGCCTCTCTGTGGCCACCATGGTGACTCTTACC
TACTTCGGGGCCCACTTTGCTGTCATCCGCCGAGCGTCCCTGGAGAAGAACCCGTACCAGGCTGTGCACC
AATGGGCCTTCTCTGCGGGGTTGAGCCTGGTGGGCCTCCTGACTCTGGGAGCCGTGCTGAGCGCTGCAGC
CACCGTGAGGGAGGCCCAGGGCCTCATGGCAGGGGGCTTCCTGTGCTTCTCCCTGGCGTTCTGTGCACAG
GTGCAGGTGGTGTTCTGGAGACTCCACAGCCCCACCCAGGTGGAGGACGCCATGCTGGACACCTACGACC
TGGTATATGAGCAGGCGATGAAAGGTACGTCCCACGTCCGGCGGCAGGAGCTGGCGGCCATCCAGGACGT
GTTTCTGTGCTGTGGGAAGAAGTCTCCTTTCAGCCGTCTGGGGAGCACAGAGGCTGACCTGTGTCAGGGA
GAGGAGGCGGCGAGAGAGGACTGCCTTCAGGGCATCCGGAGCTTCCTGAGGACACACCAGCAGGTCGCCT
CCAGCCTGACCAGCATCGGCCTGGCCCTCACGCTTGGACCGCAAGGGCAAATACACCCTGACCCCACGAG
CATGTGGCCGCCAGCCCCAGGAGCCCAGCCTCTTGAGATGCTCCCAGGGTGGACCCACACATTGTCTCCA
CTCCGAAGCAGTTGCTATTGGTCCAAGAGGATGCTCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

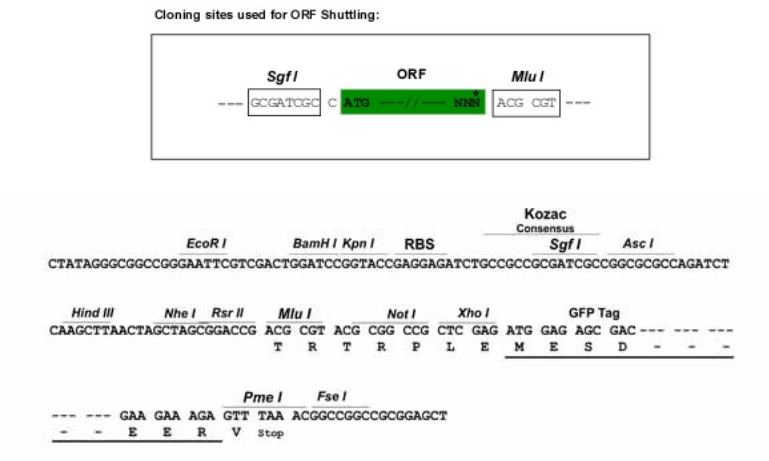
>RG224210 representing NM_139022
Red=Cloning site Green=Tags(s)

MQPTSWAVSCGLRPLPSWKPQGGEGRGGEERRGTVMGPWSRVRVAKCQMLVTCFFILLLGLSVATMVTLT
YFGAHFAVIRRASLEKNPYQAVHQWAFSAGLSLVGLLTLGAVLSAAATVREAQGLMAGGFLCFSLAFCAQ
VQVVFWRLHSPTQVEDAMLDTYDLVYEQAMKGTSHVRRQELAAIQDVFLCCGKKSPFSRLGSTEADLCQG
EEAAREDCLQGIRSFLRTHQQVASSLTSIGLALTLGPQGQIHPDPTSMWPPAPGAQPLEMLPGWTHTLSP
LRSSCYWSKRMLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139022

ORF Size: 960 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_139022.2, NP_620591.3

RefSeq Size: 1376 bp

RefSeq ORF: 963 bp

Locus ID: 10077

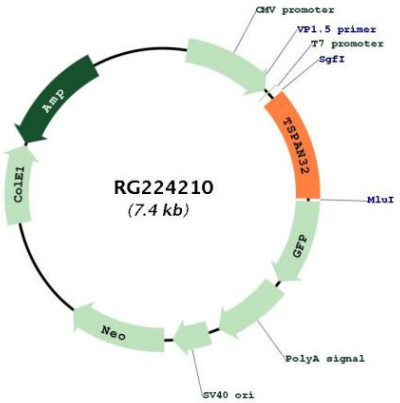
UniProt ID: Q96QS1

Cytogenetics: 11p15.5

Protein Families: Transmembrane

Gene Summary: This gene, which is a member of the tetraspanin superfamily, is one of several tumor-suppressing subtransferable fragments located in the imprinted gene domain of chromosome 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian and breast cancers. This gene is located among several imprinted genes; however, this gene, as well as the tumor-suppressing subchromosomal transferable fragment 4, escapes imprinting. This gene may play a role in malignancies and diseases that involve this region, and it is also involved in hematopoietic cell function. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224210