OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC319313

PHAX (NM_032177) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHAX (NM_032177) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHAX
Synonyms:	RNUXA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_032177.2 CAGCGCAGCGCACCGCGGGAAGATGGCGTTGGAGGTCGGCGATATGGAAGATGGGCAGCT TTCCGACTCGGATTCCGACATGACGGTCGCACCCAGCGACAGGCCGCTGCAATTGCCAAA AGTGCTAGGTGGCGACAGTGCTATGAGGGCCTTCCAGAACACGGCAACTGCATGTGCACC AGTATCACATTATCGAGCTGTTGAAAGTGTGGATTCAAGTGAAGAAAGTTTTTCTGATTC AGATGATGATAGCTGTCTTTGGAAACGCAAACGACAGAAATGTTTTAACCCTCCTCCCAA ACCAGAGCCTTTTCAGTTTGGCCAGAGCAGTCAGAAACCACCTGTTGCTGGAGGAAAGAA GATTAACAACATATGGGGTGCTGTGCTGCAGGAACAGAATCAAGATGCAGTGGCCACTGA ACTTGGTATCTTGGGAATGGAGGGCACTATTGACAGAAGCAGACAATCCGAGACCTACAA TTATTTGCTTGCCAAGAAACTTAGGAAGGAATCTCAAGAGCATACAAAAGATCTAGACAA GGAACTAGATGAATATATGCATGGTGGCAAAAAAATGGGATCAAAGGAAGAGGAAAATGG GCAAGGTCATCTCAAAAGGAAACGACCTGTCAAAGACAGGCTAGGGAACAGACCAGAAAT GAACTATAAAGGTCGATACGAGATCACAGCGGAAGATTCTCAAGAGAAAGTGGCTGATGA AATTTCATTCAGGTTACAGGAACCAAAGAAAGACCTGATAGCCCGAGTAGTGAGGATTAT TGGTAACAAAAAGGCAATTGAACTTCTGATGGAAACCGCTGAAGTTGAACAAAATGGTGG TCTCTTTATAATGAATGGTAGTCGAAGAAGAACACCAGGTGGAGTTTTTCTGAATCTCTT GAAAAACACTCCTAGTATCAGCGAGGAACAAATTAAGGACATTTTCTACATTGAAAACCA AAAGGAATATGAAAATAAAAAAGCTGCTAGGAAGAGGAGAACACAAGTGTTGGGGAAAAA GATGAAACAAGCTATTAAAAGTCTAAATTTTCAAGAAGATGATGATACATCACGAGAAAC TTTTGCAAGTGACACGAATGAGGCCTTGGCCTCTCTTGATGAGTCACAGGAAGGACATGC AGAAGCCAAGTTGGAGGCAGAGGAAGCCATTGAAGTTGATCATTCTCATGATTTGGACAT CTTTTAAGTACATTTTCAACAGTTTGAGGACTAAGCCTTTCTAAAATAACATTGTAATAA ACCATTTTTACTGAGATTGCAACGTTTTGCACTGATAAACATGAGAATCTGGAAAAAAAA AAAAAAAAAA
Restriction Sites:	Please inquire

View online »

ACCN:	NM_032177
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_032177.2, NP_115553.2
RefSeq Size:	1751 bp
RefSeq ORF:	1185 bp
Locus ID:	51808
UniProt ID:	Q9H814
Cytogenetics:	5q23.2
Gene Summary:	A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus. Bridge components required for U snRNA export, the cap binding complex (CBC)-bound snRNA on the one hand and the GTPase Ran in its active GTP-bound form together with the export receptor XPO1 on the other. Its phosphorylation in the nucleus is required for U snRNA export complex assembly and export, while its dephosphorylation in the cytoplasm causes export complex disassembly. It is recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Its compartmentalized phosphorylation cycle may also contribute to the directionality of export. Binds strongly to m7G-capped U1 and U5 small nuclear RNAs (snRNAs) in a sequence-unspecific manner and phosphorylation-independent manner (By similarity). Plays also a role in the biogenesis of U3 small nucleolar RNA (snoRNA). Involved in the U3 snoRNA transport from nucleoplasm to Cajal bodies. Binds strongly to m7G-capped U3, U8 and U13 precursor snoRNAs and weakly to trimethylated (TMG)-capped U3, U8 and U13 snoRNAs. Binds also to telomerase RNA.[UniProtKB/Swiss-Prot Function]