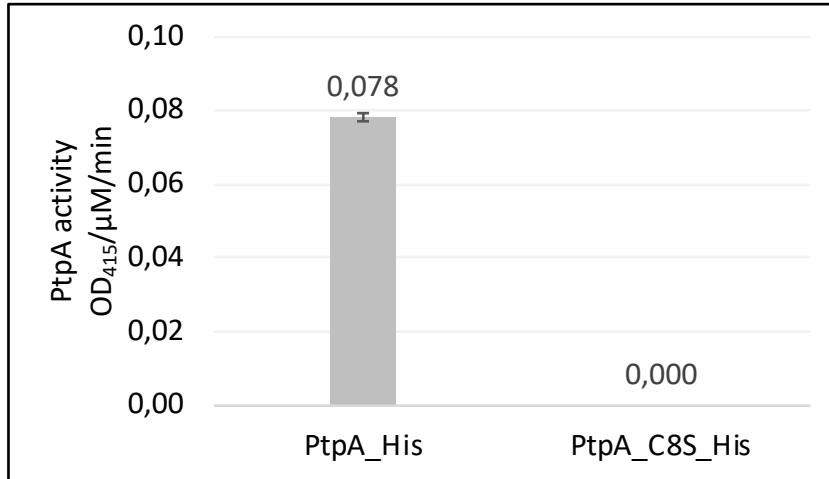


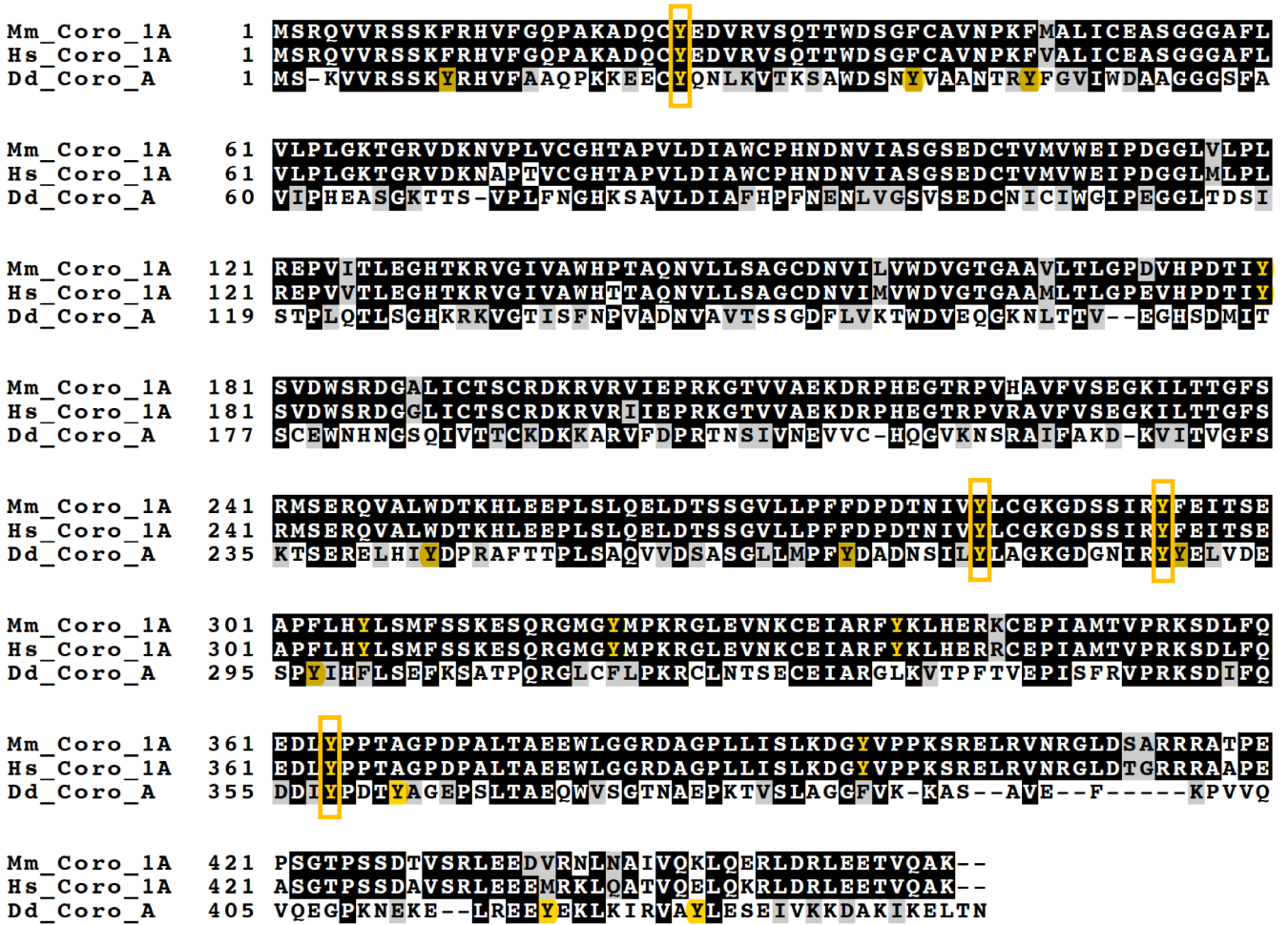
Figure S1



**Figure S1: Phosphatase activity of PtpA and derivatives.** PtpA<sub>His</sub> or PtpA<sub>C8S\_His</sub> were used to test their phosphatase activity by using *p*-nitrophenylphosphate (pNPP) as a substrate as previously described by Brelle *et al.* (2016). The assay was performed in triplicate. The PtpA<sub>C8S</sub> activity is null.

Brelle, S., Baronian, G., Huc-Brandt, S., Zaki, L. G., Cohen-Gonsaud, M., Bischoff, M., and Molle, V. (2016) Phosphorylation-mediated regulation of the *Staphylococcus aureus* secreted tyrosine phosphatase PtpA. *Biochem Biophys Res Commun* **469**, 619-625

# Figure S2



**Figure S2: Sequence alignment of Coronin 1A proteins.** Sequences were aligned using ClustalW program. Alignments are shaded using the BOXSHADE server. Sequence designations and NCBI GI numbers are as follows: Mm\_Coro-1A from Murine macrophages, GI O89053; Hs\_Coro-1A from Homo sapiens, GI P31146; and Dd\_Coro-A from *Dictyostelium discoideum*, GI P27133. Black boxes represent identical residues and grey boxes indicate similar residues. Tyrosine residue (Y) are highlighted in orange. Similar tyrosine residues in all three species are framed in orange boxes.

<i>Plasmodium falciparum</i>	----MYNVPLIKNLYPDPSS--NNLYGDLRCSRATETCGIACSAGYIAPVPQWVEGGGMIG	54
<i>Toxoplasma gondii</i>	-MADAVDVPLIKNLYABAW--KQOYSDLRRLSTKQTESCGLAANTEYIAPWDVGGGGVIG	57
<i>Amphimedon queenslandica</i>	-MAFKQRHRSKFKHVKGPEFFKKNDCYDNVIKISKSPWDSNKSVDVNGKFLAVVLESQGGGAF	59
<i>Caenorhabditis elegans</i>	-MAQIVRQSKFRHVFQKPKHESCSDIRVTEITWDSLDFCDVNPKFLAIFINRG--AGGPFM	58
<i>Anopheles darlingi</i>	MSFRVVRSSKFRHVYGGQALKREQCYDNIRVSKSSWDSTFCVAVNPKFLAIIIVESAGGGAFI	60
<i>Drosophila melanogaster</i>	MSFRVVRSSKFRHVYGGQALKREQCYDNIRVSKSSWDSTFCVAVNPKFLAIIIVESAGGGAFI	60
<i>Nilaparvata lugens</i>	MSFRVVRSSKFRHVYGGQALKREQCYDNIRVSKSSWDSTFCVAVNPKFLAIIIVESAGGGAFI	60
<i>Trichogramma pretiosum</i>	MSFRVVRSSKFRHVYGGQALKREQCYDNIRVSKSSWDSTFCVAVNPKFLAIIIVESAGGGAFI	60
<i>Columba livia</i>	-MRRVVRQSKFRHVFGQAVKNDQCYDDIRVSRVTWDSDFCAVNPRFVAIIVDASGGGAF	59
<i>Gallus gallus</i>	-MRRVVRQSKFRHVFGQAVKNDQCYDDIRVSRVTWDSDFCAVNPRFVAIIVDASGGGAF	59
<i>Danio rerio</i>	MSRKVVRSSKFRHVFGQAVKADQCYDDIRISQMTWDSNFCVSNPKFVSMIVDASGGGAFI	60
<i>Salmo salar</i>	MSRKVVRSSKFRHVFGQAVKADQCYDDIRISQMTWDSNFCVSNPKFVAMIVDASGGGAFI	60
<i>Xenopus tropicalis</i>	MSRKVVRSSKFRHVFGQAVKADQCYDDIRVSRVTWDSDFCAVNPRFVAIIVDASGGGAF	60
<i>Ophiophagus hannah</i>	MSRKVVRSSKFRHVYGGQAVKADQCYDDIRVSRVTWDSDFCAVNPRFVAIIVDASGGGAF	60
<i>Python bivittatus</i>	MSRKVVRSSKFRHVYGGQAVKADQCYDDIRVSRVTWDSDFCAVNPRFVAIIVDASGGGAF	60
<i>Chrysemys picta bellii</i>	MSRKVVRSSKFRHVFGQAVKADQCYDDIRISQMTWDSNFCVSNPKFVSMIVDASGGGAFI	60
<i>Mus musculus</i>	MSRQVVRSSKFRHVFGQAVKADQCYEDVRSVQTTWDSGFCVAVNPKFVALICEASGGGAF	60
<i>Pteropus alecto</i>	MSRQVVRSSKFRHVFGQAVKADQCYEDVRSVQTTWDSGFCVAVNPKFVALICEASGGGAF	60
<i>Trichechus manatus</i>	MSRQVVRSSKFRHVFGQAVKADQCYEDVRSVQTTWDSGFCVAVNPKFVALICEASGGGAF	60
<i>Homo sapiens</i>	MSRQVVRSSKFRHVFGQAVKADQCYEDVRSVQTTWDSGFCVAVNPKFVALICEASGGGAF	60
<i>Macaca nemestrina</i>	MSRQVVRSSKFRHVFGQAVKADQCYEDVRSVQTTWDSGFCVAVNPKFVALICEASGGGAF	60
<i>Dictyostelium discoideum</i>	-MSKVVRSSKYRHVFAAQPKKEECYQNLKVTSAWDSNYVAANTRYFGVIWDAAGGGSFA	59
<i>Entamoeba histolytica</i>	MSYRFRITSKYRHVFGTEFKNDQQYNGTKMTNSAWDSNIIVCGYKHFSSMIWVAGGGGAF	60
<i>Saccharomyces cerevisiae</i>	MSGKFRVRSKYRHVFGQAAKKEQYKELKVTNNAWDSNLLKTNKGFIAVNNWASGGGAF	60
<i>Penicillium camemberti</i>	MSGFRVRSKYRHVFGGRSTRKQDCYDNLVRSRNAWDTNLLKVTNPKHIAVNWASGGGAF	60
<i>Plasmodium falciparum</i>	TTS-PL-TTITLDNAASPLLPYIDETGMYIYLIGKGDGNCRYIYQYSQGS--IRKVDYK	305
<i>Toxoplasma gondii</i>	FDK-PV-YHAEIDRGSPLPHYFDETTGMLYVCGKGDSSCRYYQYHGTT--LRSDVAYRS	308
<i>Amphimedon queenslandica</i>	LSS-SL-ATEFTLDNGSGTIFSFDEEDTKMVYFIGKGDGQMRYYEILDESPYQQLSMYQH	310
<i>Caenorhabditis elegans</i>	LST-PI-VEEELDTSNGVVPFYDEDSGLVYLVGKGDCAIRYYEVNNDAPYVHYINTYTT	307
<i>Anopheles darlingi</i>	LGD-PI-VMVELDTSNGVMFPLYDPDTNLIIYLCGKGDVIRYFEVTPPEQPFVHYINQFQT	340
<i>Drosophila melanogaster</i>	LNE-PI-VMVELDTSNGVMFPLYDADTNMIYLCGKGDVIRYFEVTPPEQPFVHYINQFQT	309
<i>Nilaparvata lugens</i>	LTE-PI-VMVELDTSNGVMFPLYDPDTNLVYLCGKGDVIRYFEITAEPLPFVHYINTFQT	309
<i>Trichogramma pretiosum</i>	LAE-PI-TMLEDTSNGVMFPLYDPDTNLVYLCGKGDVIRYFEITPEPPFVHYINTFQT	309
<i>Columba livia</i>	MEE-PI-ALHEMDTSSGVLLPFYDPDTNIIYLCGKGDSSIRYFEITDESPPYHYLNTFSS	310
<i>Gallus gallus</i>	MEE-PI-ALHEMDTSSGVLLPFYDPDTNIIYLCGKGDSSIRYFEITDESPPYHYLNTFSS	310
<i>Danio rerio</i>	FGE-PL-TLQELDTSSGVLLPFDPDTGIVYLCGKGDSSIRYFEVTDAPYVHYLSMYSS	311
<i>Salmo salar</i>	FGE-PL-TLQELDTSSGVLLPFDPDTGIVYLCGKGDSSIRYFEVTDAPYVHYLSMYSS	311
<i>Xenopus tropicalis</i>	LGE-PL-TLQELDTSSGVLLPFDPDTNVVYLCGKGDSSIRYFEVTDAPYVHYLSLYSS	310
<i>Ophiophagus hannah</i>	PEE-PL-TLQELDTSSGVLLPFYDPDTNVVYLTGKGDSSIRYFELTGEAPYVHYLSMFTS	312
<i>Python bivittatus</i>	PEE-PL-TLQELDTSSGVLLPFYDPDTNVVYLTGKGDSSIRYFELTGEAPYVHYLSMFTS	312
<i>Chrysemys picta bellii</i>	LEE-PM-NLQELDTSSGVLLPHYDPDTSMVYLCGKGDSSIRYFEVTPPEAPYLHFLSLFSS	311
<i>Mus musculus</i>	LEE-PL-SLQELDTSSGVLLPFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFTS	312
<i>Pteropus alecto</i>	LEE-PL-SLQELDTSSGVLLPFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFTS	312
<i>Trichechus manatus</i>	LEE-PL-SLQELDTSSGVLLPFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFTS	312
<i>Homo sapiens</i>	LEE-PL-SLQELDTSSGVLLPFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFTS	312
<i>Macaca nemestrina</i>	LEE-PL-SLQELDTSSGVLLPFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFTS	312
<i>Dictyostelium discoideum</i>	FTT-PL-SAQVVDASGLLMPFYDADNSIYLAGKGDGNIRYELVDESPIYHFLSEFKS	306
<i>Entamoeba histolytica</i>	LES-PL-CRHTVDNQSGVLMFPYDPLDLSLLYLGKGDSSISYFEIYHKKPYFVSLNTFRG	309
<i>Saccharomyces cerevisiae</i>	IEKGLDGGFYTVQSSGILMPFYDEGNKILYLVGKGDGNIRYEFQND--FLFELSEFQS	318
<i>Penicillium camemberti</i>	V-REPIINGFKTLDSISGVCMPFWDGDTNMLYLAGRGDGNIRYFELENK--FEFLSEHS	316
<i>Plasmodium falciparum</i>	CLPFRSFGFLPKRMCVYKCEIGRVYKNGNNTDIRPISFYVPRKNSSIFQEDLYPPIIMR	365
<i>Toxoplasma gondii</i>	SVPIKNFCFIPKLAVDQMAEIGRMLKQENGNVLQPISFIVPRKNQDVQADLYPPAPDV	368
<i>Amphimedon queenslandica</i>	SLPQIGVCSMPKRFLDHKACEVMRFFKLNKGMVEPIQIMIVPRK-SGMFQEDIPPCYAG	369
<i>Caenorhabditis elegans</i>	NEPQRAVGFQSKRGMSSSEENIRIYKLTTKGVVDILQFVPRK-SDLFQEDLYPDTTRST	366
<i>Anopheles darlingi</i>	PDSQRAIGMMPKRGCDVSTCEVAFYRLLNNSGLCQVISMVTPRK-SELFQEDLYPDTLAD	399
<i>Drosophila melanogaster</i>	TEPQRGIGLMPKRGCDVSTCEVAFYRLLNNSGLCQVISMVTPRK-SDLFQEDLYPDTLAE	368
<i>Nilaparvata lugens</i>	PDPQRGIGMMPKRGCDVSSCEITRFYRLNNSGLCQVITMTVPRK-SELFQEDLYPDTLGD	368
<i>Trichogramma pretiosum</i>	PDPQRGIGMMPKRGCDVNSCEISRFRLLNNSGFCQVSMVTPRK-SELFQEDLYPDTAGD	368
<i>Columba livia</i>	KEPQRGMGFMPKRGLDVNKCEIARFFKLHE-RKCEPIIMTVPRK-SDLFQEDLYPDTAGP	368
<i>Gallus gallus</i>	KEPQRGMGFMPKRGLDVNKCEIARFFKLHE-RKCEPIIMTVPRK-SDLFQEDLYPDTAGP	368
<i>Danio rerio</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RKCEPIVMTVPRK-SDLFQEDLYPNTVGP	369
<i>Salmo salar</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RKCEPIVMTVPRK-SDLFQEDLYPDTMGP	369
<i>Xenopus tropicalis</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RKCEPIIMTVPRK-SDLFQEDLYPDTVGP	368
<i>Ophiophagus hannah</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RKCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Python bivittatus</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RKCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Chrysemys picta bellii</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RRCEPIAMTVPRK-SDLFQEDLYPDTAGP	369
<i>Mus musculus</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RKCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Pteropus alecto</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RRCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Trichechus manatus</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RRCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Homo sapiens</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RRCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Macaca nemestrina</i>	KESQKGMGYMPKRGLEVNKCEIARFYKLHE-RRCEPIAMTVPRK-SDLFQEDLYPDTAGP	370
<i>Dictyostelium discoideum</i>	ATPQRGLCFLPKRCLNTSECEIARGLKVT-FTVEPIISFRVPRK-SDFQDDIYPTTYAG	364
<i>Entamoeba histolytica</i>	EKPQSGLVIPKRLCNTTICEITKFMKIVP-DGVVPIISFCVPRK-SEFFQDDIYPTTYAG	367
<i>Saccharomyces cerevisiae</i>	TEAQRGFAVAPKRMVNVKENEVLKGFKTVDQRIEIPVSVFFVPRR-SEFFQDDIYPDAPSN	377
<i>Penicillium camemberti</i>	ADPQRGVAFMPKRGVNMHDNEVARAYKTVDNQYIEPVSVIVPRR-SETFQDDIYPTTYAG	375

**Figure S3: Sequence alignment of conserved tyrosine residues harboring regions of Coronin 1 proteins.**

Sequences were aligned using Clustal Omega. Conserved tyrosine residues are labeled in yellow, mismatches are indicated in red. Sequences corresponding to the ones depicted in Fig. S2 are labeled in blue. Sequences were obtained from the following NCBI entries: *Amphimedon queenslandica*, XP\_003382924; *Anopheles darlingi*, GI 568254291; *Caenorhabditis elegans*, GI 25150742; *Chrysemys picta bellii*, XP\_005290238; *Columba livia*, GI 1307741494; *Danio rerio*, GI 41055464; *Drosophila melanogaster*, GI 21685588; *Entamoeba histolytica*, GI 1033413111; *Gallus gallus*, GI 482661642; *Homo sapiens*, GI P31146; *Macaca nemestria*, GI 795657297; *Mus musculus*, GI O89053; *Nilaparvata lugens*, XP\_022202333; *Ophiophagus hannah*, GI 565307310; *Penicillium camemberti*, GI 902279349; *Plasmodium falciparum*, GI 2808641; *Pteropus alecto*, GI 586561765; *Python bivittatus*, GI 602635008; *Saccharomyces cerevisiae*, GI 151940945; *Salmo salar*, GI 223647640; *Toxoplasma gondii*, GI 53801426; *Trichechus manatus*, GI 471410223; *Trichogramma pretiosum*, XP\_014222528; *Xenopus tropicalis*, GI 54262238.