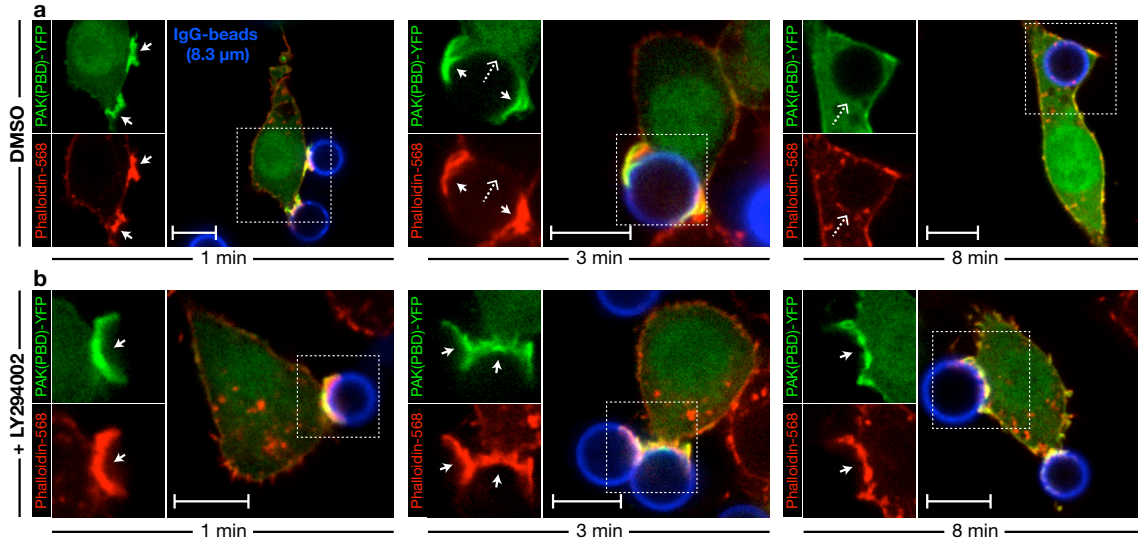
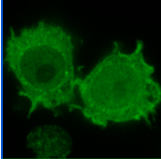
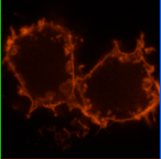
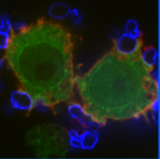
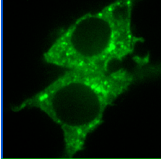
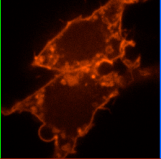
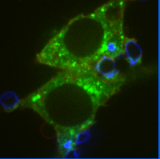
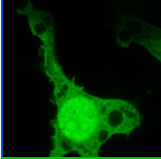
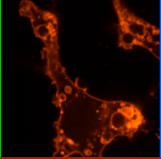
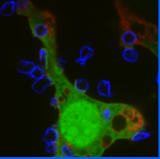
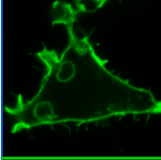
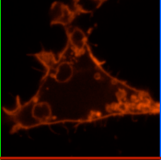
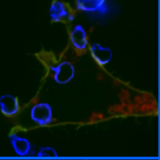
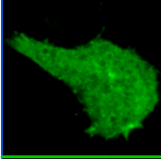
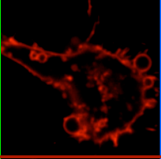
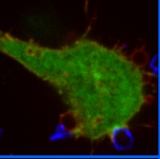
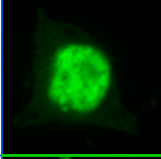
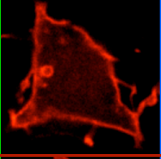
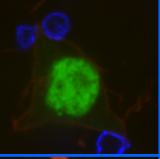
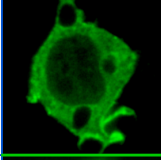
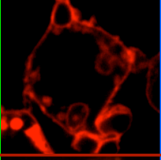
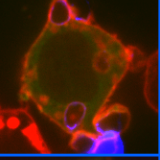
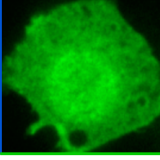
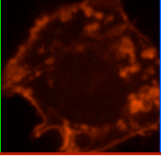
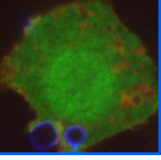


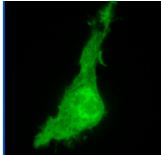
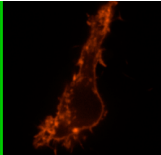
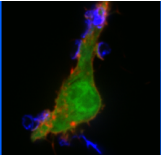
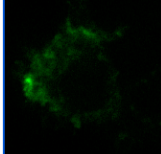
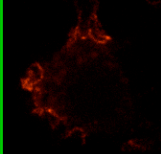
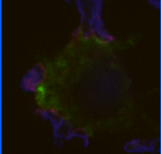
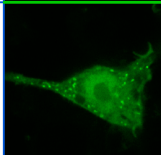
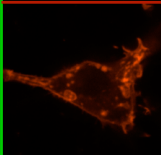
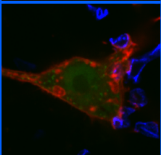
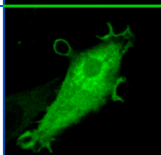
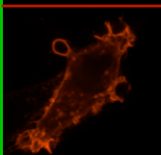
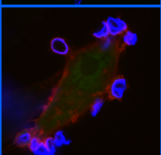
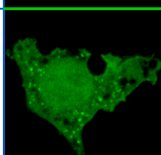
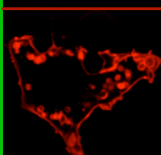
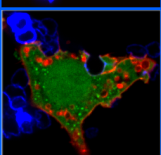
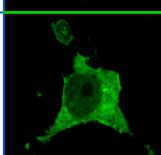
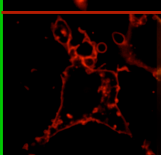
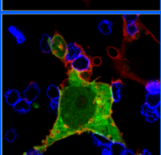
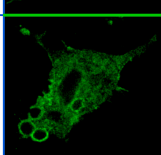
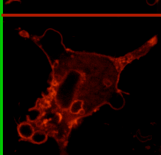
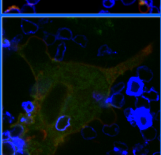
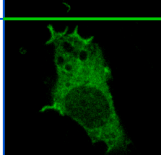
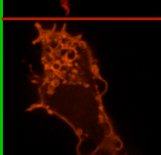
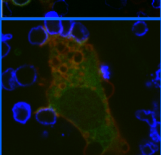
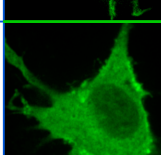
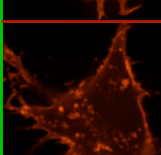
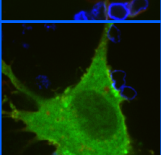
## SUPPLEMENTARY INFORMATION



**Supplementary Figure 1:** Confocal micrographs of RAW 264.7 macrophages transfected with PAK(PBD)-YFP (shown in green), a biosensor for active Rac/Cdc42, during phagocytosis of 8.3- $\mu$ m IgG-beads. Prior to phagocytosis, cells were treated with DMSO (**a**) or LY294002 (**b**) for 10 min. Phagocytosis was allowed to proceed for the indicated times, before fixing and staining F-actin with phalloidin (shown in red). All phagocytic targets were stained with a Cy5-conjugated secondary antibody (shown in blue) prior to phagocytosis. Insets (boxed regions) show magnified views of the phagocytic cup. Scale bar, 10  $\mu$ m. Micrographs are representative of 3 independent experiments; at least 20 cells were assessed per replicate.

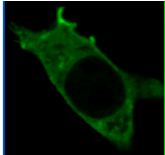
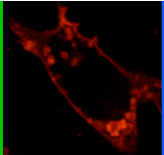
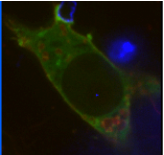
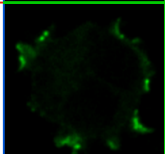
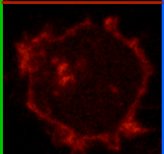
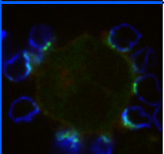
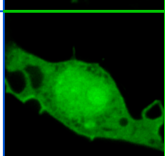
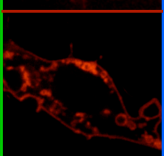
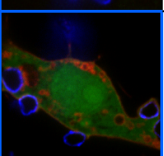
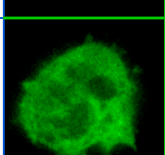
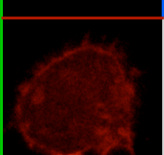
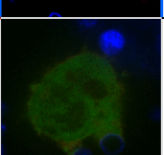
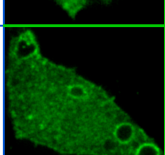
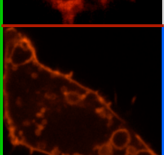
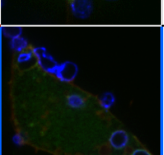
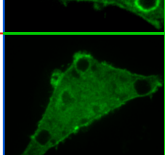
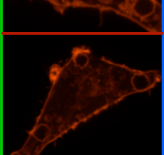
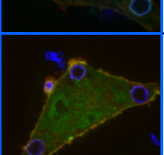
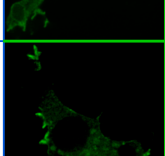
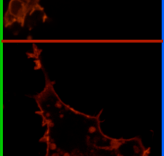
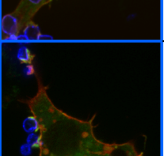
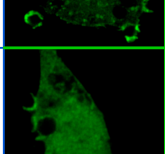
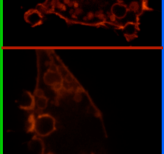
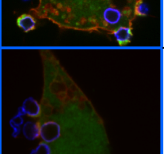
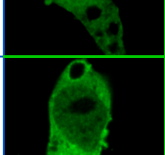
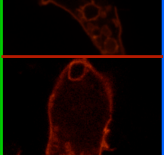
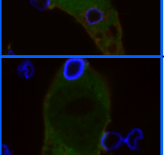
Name & GeneID (human, mouse, rat, chimpanzee)	mCitrine-RhoGAP	PM-RFP	RhoGAP + PM-RFP + IgG-E	Subcellular localisation at rest	Distribution during phagocytosis	Phagocytic cup recruitment (score)
Inositol polyphosphate-5-phosphatase, 75kDa (INPP5B) 3633				Ubiquitous distribution; subtle accumulation at nuclear and plasma membranes	Present at cup but already found at plasma membrane prior to particle engagement	None-to -subtle: 1
Oculocerebrorenal syndrome of Lowe (OCRL) 4952				Punctated and primarily found in perinuclear compartments. Also present at plasma membrane	Present at cup but already found at plasma membrane prior to particle engagement	None-to -subtle: 1
Rho GTPase activating protein 36 (ARHGAP36) 158763				Primarily nuclear. Also cytosolic and plasma membrane bound	Present at cup but already found at plasma membrane prior to particle engagement	None-to -subtle: 1
Rho GTPase activating protein 36 (ARHGAP36) short 158763				Exclusively plasma membrane	Present at cup but already found at plasma membrane prior particle engagement. Increase in GAP fluorescence	Subtle: 2
Rho GTPase activating protein 40 (ARHGAP40) 343578				Ubiquitous distribution	Present at cup but already found at plasma membrane prior to particle engagement	None-to -subtle: 1
Rho GTPase activating protein 19 (ARHGAP19) 84986				Exclusively nuclear and and somewhat plasma membrane	Subcellular localisation is a compartment distant from nascent cups	None: 0
Deleted in liver cancer 1 (DLC1) 10395				Mainly cytosolic but also found at plasma membrane	Present at cup but already found at plasma membrane prior particle engagement.	None-to -subtle: 1
StAR-related lipid transfer (START) domain containing 8 (STARDB8) 9754				Ubiquitous distribution	Present at cup but already found at plasma membrane prior to particle engagement	None-to -subtle: 1

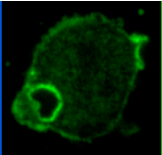
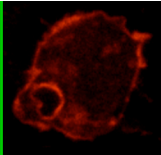
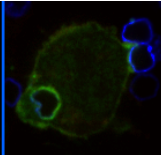
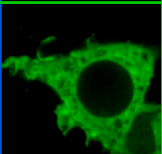
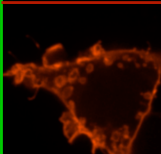
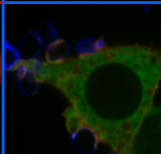
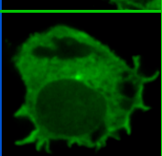
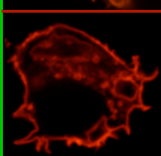
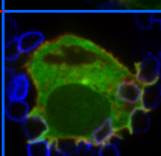
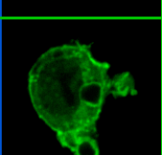
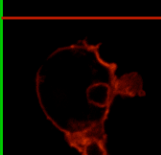
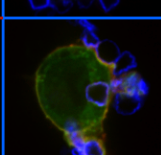
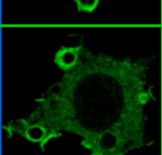
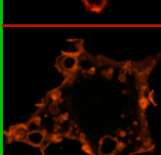
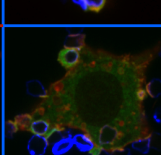
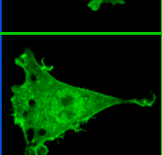
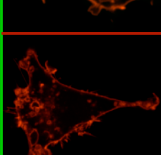
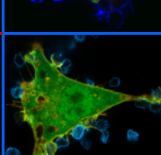
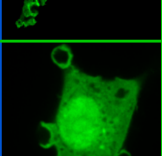
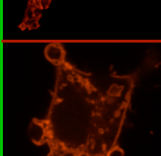
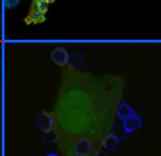
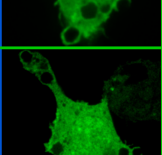
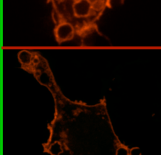
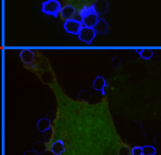
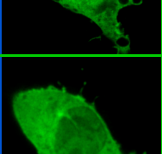
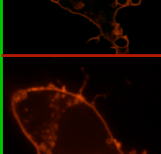
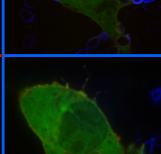
<p>StAR-related lipid transfer (START) domain containing 13 (STARDB13) 90627</p>				<p>Cytosolic and plasma membrane</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>Subtle-to-moderate: 3</p>
<p>Rho GTPase activating protein 21 (ARHGAP21) 57584</p>				<p>Ubiquitous distribution but primarily plasma membrane and nucleus</p>	<p>Marked retention at sealed phagosome and mild accumulation at plasma membrane</p>	<p>Subtle-to-moderate: 3</p>
<p>Myosin IXB (MYO9B) 4650</p>				<p>Phagocytic cups and sealed phagosomes nearly exclusively</p>	<p>Pronounced accumulation at phagocytic cups and internalized phagosomes</p>	<p>Moderate-to-exceptional 5</p>
<p>GEM interacting protein (GMIP) 51291</p>				<p>Cytosolic and plasma membrane</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>Subtle: 2</p>
<p>Rho GTPase activating protein 29 (ARHGAP29) 9411</p>				<p>Cytosolic and plasma membrane</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>Subtle: 2</p>
<p>Rac GTPase activating protein 1 (RACGAP1) 29127</p>				<p>Cytosolic and nuclear</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>None-to-subtle 1</p>
<p>Histocompatibility (minor) HA-1 (HMHA1) 23526</p>				<p>Cytosolic and plasma membrane</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>Subtle: 2</p>
<p>Synapse defective 1, Rho GTPase, homolog 2 (C. elegans) (SYDE2) 84144</p>				<p>Primarily nuclear. Also cytosolic and plasma membrane bound</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>Subtle: 2</p>
<p>RalA binding protein 1 (RALBP1) 10928</p>				<p>Ubiquitous distribution</p>	<p>Present at cup but already found at plasma membrane prior to particle engagement</p>	<p>None-to-subtle 1</p>

Family with sequence similarity 13, member A (FAM13A) 10144				Primarily nuclear but ubiquitously present	Present at cup but already found at plasma membrane prior to particle engagement	Subtle: 2
Family with sequence similarity 13, member B (FAM13B) 51306				Cytosolic and plasma membrane	Cytosolic and plasma membrane	Subtle: 2
Chimerin 2 (CHN2) 1124				Ubiquitous distribution + punctae	Present at cup but already found at plasma membrane prior to particle engagement	Subtle: 2
Chimerin 1 (CHN1) 1123				Primarily nuclear. Also cytosolic and plasma membrane bound	Present at cup but already found at plasma membrane prior to particle engagement	Subtle-to-moderate: 3
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 (ARAP1) 116985				Ubiquitous distribution + punctae	Present at cup but also ubiquitously distributed	None-to-subtle 1
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3 (ARAP3) 116984				Plasma membrane and cytosolic	Subtle increase at phagocytic cup but already found at plasma membrane prior to particle engagement	Subtle: 2
Rho GTPase-activating protein 20 (ARHGAP20) 57569				Plasma membrane and cytosolic	Moderate increase at phagocytic cup but already found at plasma membrane prior to particle engagement	Subtle-to-moderate: 3
Rho GTPase activating protein 23 (ARHGAP23) 57636				Primarily plasma membrane but also cytosolic to a lesser extent	Present at cup but already found at plasma membrane prior to particle engagement	Subtle-to-moderate: 3
Rho GTPase activating protein 15 (ARHGAP15) 55843				Plasma membrane and cytosol	Present at cup but already found at plasma membrane prior to particle engagement	Subtle-to-moderate: 3

Rho GTPase activating protein 24 (ARHGAP24) 83478				Primarily plasma membrane	Marked accumulation at base of phagocytic cup although already at plasma membrane	Moderate 4
Oligophrenin 1 (OPHN1) 4983				Primarily plasma membrane	Recruitment to phagocytic cup exclusively	Exceptional 6
Rho GTPase activating protein 25 (ARHGAP25) 9938				Plasma membrane and cytosol	Moderate accumulation at nascent cups. Increase is less obvious at the base of the cup than at the top	Moderate 4
Rho GTPase activating protein 22 (ARHGAP22) 58504				Exclusively at the plasma membrane	No accumulation; already present at the plasma membrane	None-to -subtle 1
*GEF/GAP* breakpoint cluster region (BCR) 613				Plasma membrane and cytosol	Robust recruitment to base of the cup	Moderate 4
*GEF/GAP* active BCR-related gene (ABR) 29				Exclusively nuclear	Subcellular localisation is a compartment distant from nascent cups	None: 0
Rho GTPase activating protein 27 (ARHGAP27) 201176				Plasma membrane and cytosol	Present at cup but already found at plasma membrane prior to particle engagement	Subtle-to-moderate: 3
Rho GTPase activating protein 12 (ARHGAP12) 94134				Plasma membrane and cytosolic	Present at cup but already found at plasma membrane prior to particle engagement	Moderate 4
Rho GTPase activating protein 8 (ARHGAP8) 23779				Cytosolic	No obvious recruitment; ubiquitously present throughout the cell	Subtle: 2

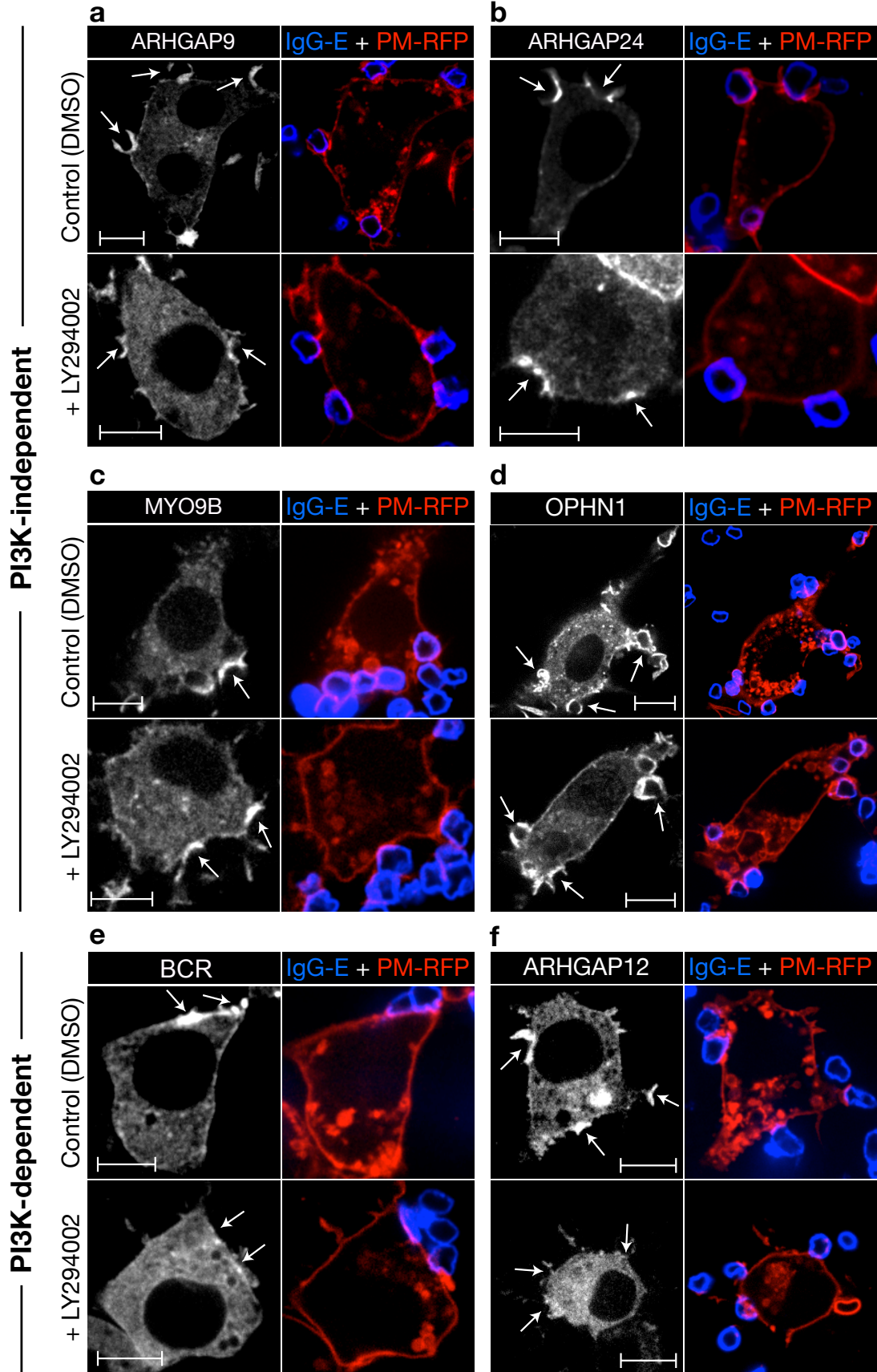
Rho GTPase activating protein 1 (ARHGAP1) 392				Ubiquitous localisation and formation of punctae.	No obvious recruitment; ubiquitously present throughout the cell	Subtle: 2
Rho GTPase activating protein 44 (ARHGAP44) 9912				Cytosolic and plasma membrane	Slight increase at the base of the phagocytic cup, although constitutively present at the plasma membrane	Subtle: 2
Rho GTPase activating protein 17 (ARHGAP17) 55114				Primarily nuclear. Also cytosolic and plasma membrane bound	No obvious recruitment; ubiquitously present throughout the cell	Subtle: 2
SH3-domain binding protein 1 (SH3BP1) 23616				Diffuse signal throughout cytosol	Marked recruitment to nascent phagocytic cups	Moderate-to-exceptional 5
SLIT-ROBO Rho GTPase activating protein 1 (SRGAP1) 57522				Plasma membrane	Possible recruitment to nascent cups	Subtle: 2
Rho GTPase activating protein 4, isoform 2 (ARHGAP4) 393				Primarily nuclear but also cytosolic and plasma membrane bound	No recruitment to phagocytic cups; ubiquitously present throughout the cell	Subtle: 2
SLIT-ROBO Rho GTPase activating protein 3, isoform a (SRGAP3) 9901				Primarily nuclear but also cytosolic and plasma membrane bound	No recruitment to phagocytic cups; ubiquitously present throughout the cell	Subtle: 2
SLIT-ROBO Rho GTPase activating protein 2, isoform c (SRGAP2) 23380				Ubiquitous distribution	No recruitment; already present at plasma membrane	None-to -subtle 1
Rho GTPase activating protein 26 (ARHGAP26) 23092				Primarily plasma membrane and nuclear but to a lesser extent cytosolic	No recruitment; already present at plasma membrane	Subtle: 2

Rho GTPase activating protein 9 (ARHGAP9) 64333				Primarily plasma membrane and nuclear but to a lesser extent cytosolic	Recruitment is more obvious in some cells, although already present at the PM prior to particle engagement	Moderate 4
Phosphoinositide-3-kinase, regulatory subunit 1 (alpha) (PIK3R1) 5295				Diffuse signal throughout cytosol	Signal exclusively at the base of phagocytic cup	Exceptional 6
Phosphoinositide-3-kinase, regulatory subunit 2 (beta) (PIK3R2) 5296				Ubiquitous distribution; subtle accumulation at nuclear and plasma membranes	Subtle accumulation at the base of the cup	Subtle: 2
DEP domain containing 1 (DEPDC1) 55635				Low expression levels; ubiquitously distributed	No recruitment; already present at plasma membrane	None-to -subtle 1
DEP domain containing 1B (DEPDC1B) 55789				Low expression levels; ubiquitously distributed	Marked retention at sealed phagosome and mild accumulation at plasma membrane	Subtle: 2
Rho GTPase activating protein 39 (ARHGAP39) 80728				Primarily nuclear. but also cytosolic	Moderate recruitment to the cup proportionally to plasma membrane increase	Subtle-to-moderate: 3
Rho GTPase activating protein 35 (ARHGAP35; GRLF1) 2909				Diffuse signal throughout cytosol	Signal exclusively at the base of phagocytic cup	Exceptional 6
Rho GTPase activating protein 5 (ARHGAP5) 394				Diffuse signal throughout cytosol	Slight recruitment to the cup proportionally to plasma membrane increase	None-to -subtle 1
T-cell activation RhoGTPase activating protein (TAGAP) 117289				Ubiquitous distribution	Slight recruitment to the cup proportionally to plasma membrane increase	Subtle: 2

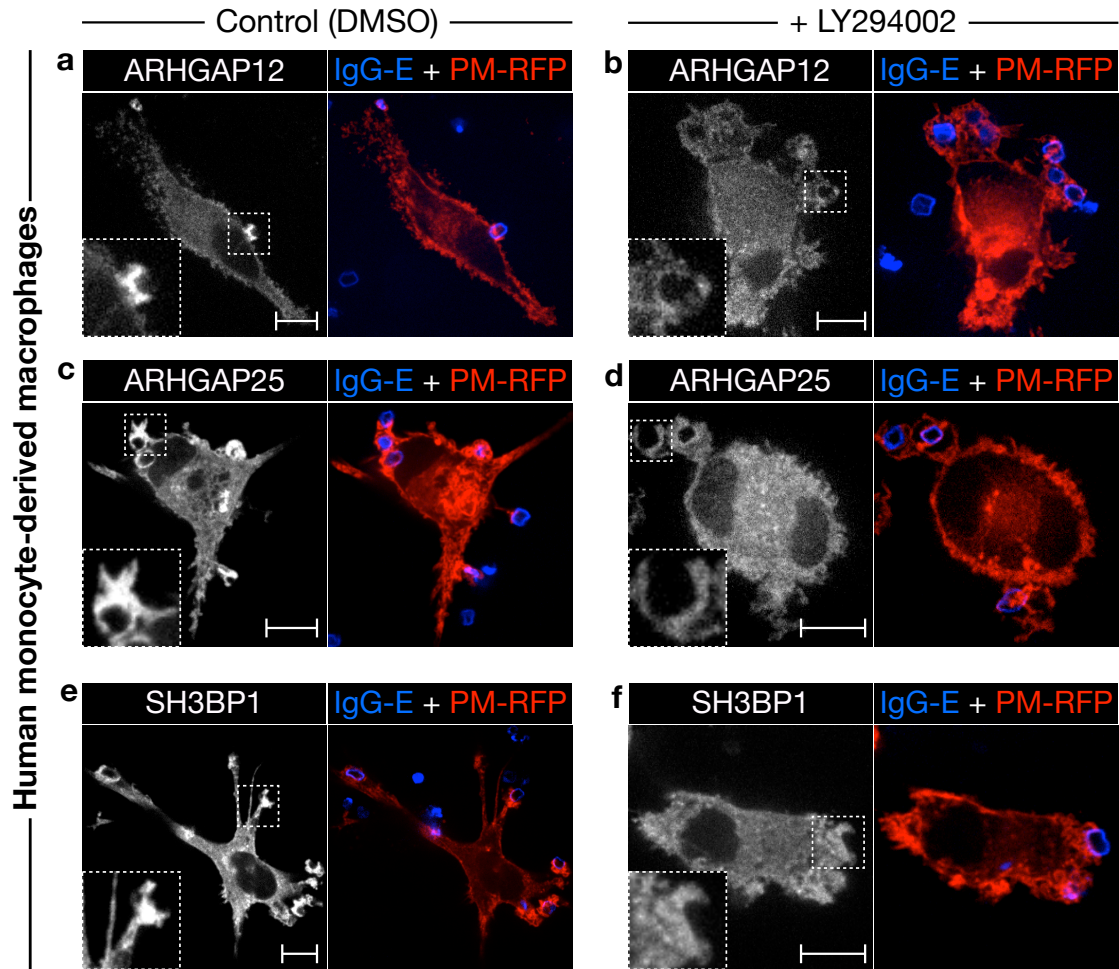
Rho GTPase activating protein 32 (ARHGAP32) 9743				Ubiquitous distribution but primarily plasma membrane	Present at cup but already found at plasma membrane; obvious retention at phagosomal membrane	Subtle-to-moderate: 3
Rho GTPase activating protein 6 (ARHGAP6) 395				Cytosolic and plasma membrane	No recruitment; already present at plasma membrane	Subtle: 2
synapse defective 1, Rho GTPase, homolog 1 (C. elegans), isoform b (SYDE1) 85360				Cytosolic and plasma membrane	No recruitment; already present at plasma membrane	Subtle: 2
synapse defective 1, Rho GTPase, homolog 1 (C. elegans), isoform a (SYDE1) 85360				Plasma membrane and cytosol	Present at cup but already found at plasma membrane prior particle engagement	Subtle-to-moderate: 3
Rho GTPase activating protein 30 (ARHGAP30) 257106				Plasma membrane and cytosol	Low signal intensity in the cytosol but strong recruitment to cups + retention at sealed phagosome	Subtle-to-moderate: 3
Rho GTPase activating protein 31 (ARHGAP31) 57514				Plasma membrane, nucleus and cytosol	Present at cup but already found at plasma membrane prior particle engagement. Mild retention at seal phagosome	Subtle-to-moderate: 3
Rho GTPase activating protein 42 (ARHGAP42), Cdc42 GTPase-activating protein 143872				Plasma membrane, nucleus and cytosol	Present at cup but already found at plasma membrane prior particle engagement.	Subtle-to-moderate: 3
Rho GTPase activating protein 28 (ARHGAP28) 79822				Ubiquitous distribution	Present at cup but already found at plasma membrane prior particle engagement.	Subtle: 2
Rho GTPase activating protein 18 (ARHGAP18) 93663				Ubiquitous distribution	Present at cup but already found at plasma membrane prior particle engagement.	Subtle: 2



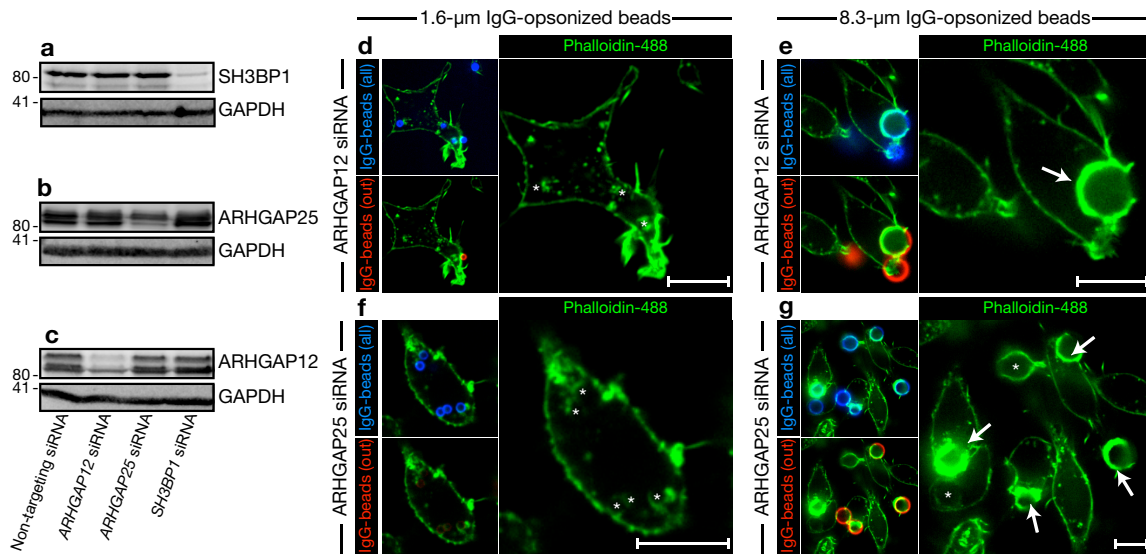
**Supplementary Figure 2: Subcellular localization of RhoGAP-family members at rest and during phagocytosis.** RhoGAP names and their corresponding gene IDs (National Centre for Biotechnology Information) are indicated in the first column. Names have been colour-coded to indicate the species from which the primary sequence was derived. The distribution of mCitrine-tagged RhoGAPs was followed by confocal microscopy in RAW 264.7 macrophages challenged with IgG-opsonized erythrocytes (IgG-E, shown in blue in column 4). In order to distinguish *bona fide* accumulation of the RhoGAP in question from bulk enrichment of plasma membrane at sites of phagocytosis, cells were transfected with the plasmalemmal marker PM-RFP. The relative extent of RhoGAP accumulation at phagocytic cups was assessed by ratiometric analysis relative to PM-RFP intensity. Itemized in this figure is also a description of the subcellular localization at rest and during phagocytosis of each RhoGAP in the collection. A score ranging from 0 to 6 (seventh column) was assigned to members of the RhoGAP family according to the robustness of their recruitment to the phagocytic cup. The background of each entry was colour-coded to facilitate interpretation: a red background corresponds to proteins that were absent from (score = 0) or barely detectable at (score = 1) the phagocytic cup, while a green background corresponds to proteins that were moderately recruited (score = 2-4). Blue background was assigned to proteins showing moderate-to-exceptional (score = 5) or exceptional (score = 6) translocation to sites of phagocytosis. Only RhoGAPs receiving scores ranging from 4-6 were selected for further screening and functional validation.



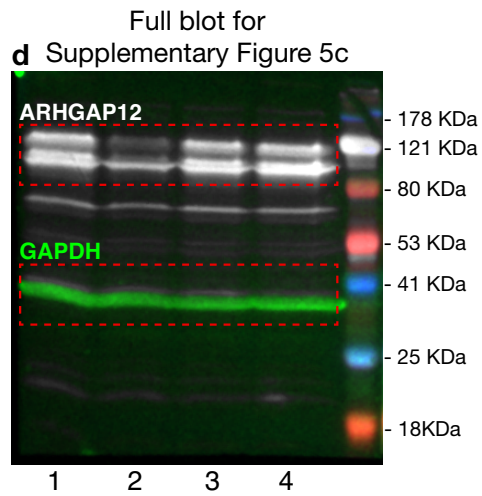
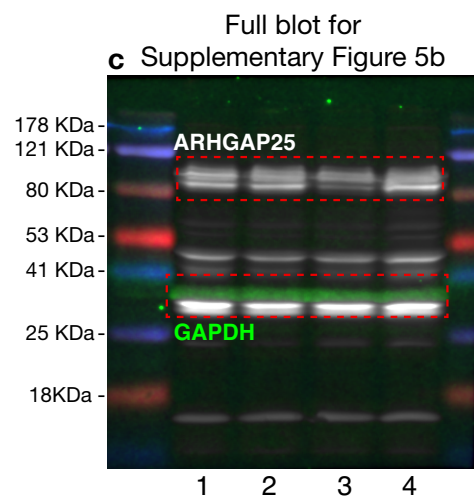
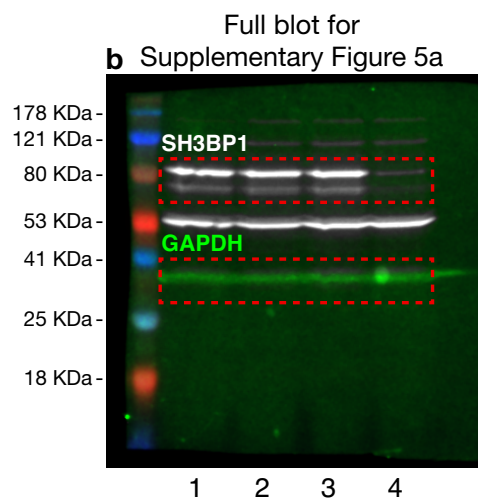
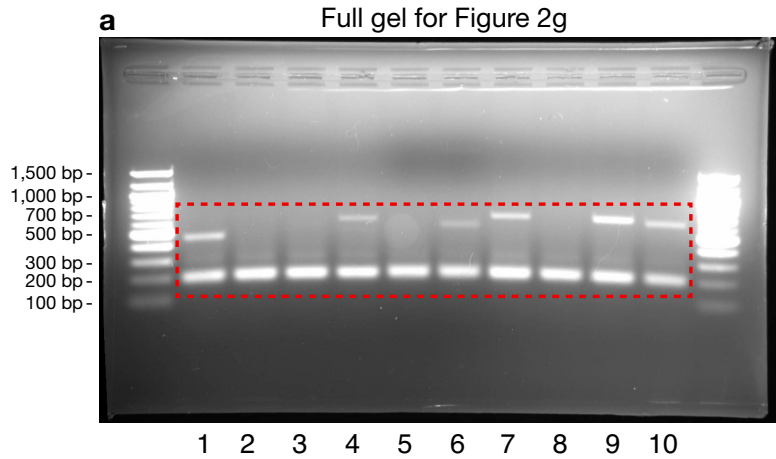
**Supplementary Figure 3: PI3K dependency of RhoGAP recruitment to phagocytic cups.** (a-f) RAW 264.7 macrophages were independently co-transfected with constructs encoding the plasmalemmal marker PM-RFP and each of the 10 RhoGAPs that most markedly accumulated at phagocytic cups. Transfectants were exposed to IgG-opsonized erythrocytes (IgG-E; shown in blue) for 3 min before being fixed and imaged by confocal microscopy. Where indicated, cells were treated with either vehicle (DMSO) or the PI3K inhibitor LY294002 for 10 min prior to the addition of phagocytic targets. RhoGAPs that were recruited to sites of phagocytosis in a PI3K-independent manner are shown in the upper four panels (a-d), while those that were sensitive to PI3K inhibition are shown in the lower two panels (e,f). Arrows point to sites of particle engagement. Scale bar, 10  $\mu$ m. Micrographs are representative of 3 independent experiments; at least 20 cells were assessed per replicate.



**Supplementary Figure 4: ARHGAP12, ARHGAP25 and SH3BP1 translocate to phagocytic cups in a PI3K-dependent manner in primary macrophages.** (a-f) Human monocyte-derived macrophages were co-electroporated with constructs encoding mCitrine-tagged ARHGAP12 (a,b), ARHGAP25 (c,d) or SH3BP1 (e,f) and the plasmalemmal marker PM-RFP. The electroporated cells were treated with either vehicle (DMSO; left panels) or the PI3K inhibitor LY294002 (right panels) for 10 min prior to being challenged with IgG-opsonized erythrocytes (IgG-E; shown in blue). Phagocytosis proceeded for 3 min before fixation and imaging by confocal microscopy. Insets (boxed regions) show magnified views of the phagocytic cup. Scale bar, 10  $\mu$ m. Micrographs are representative of 3 independent experiments; at least 20 cells were assessed per replicate.



**Supplementary Figure 5: Silencing of PI3K-sensitive RhoGAPs precludes phagocytosis of large, but not small phagocytic targets.** (a-c) Representative immunoblots from 3 experiments showing protein levels of SH3BP1 (a), ARHGAP25 (b) and ARHGAP12 (c) in cells electroporated with the indicated siRNAs. (d-g) RAW 264.7 macrophages electroporated with siRNA directed against *ARHGAP12* (d,e) or *ARHGAP25* (f,g) were challenged with small (left panels) or large (right panels) IgG-opsonized phagocytic particles and fixed 10 min after particle exposure. All targets were stained with a Cy5-conjugated anti-IgG secondary antibody (shown in blue) prior to being added to phagocytes. Particles that remained extracellular (shown in red) were identified by the procedure described in the legend of Figure 4. Macrophages were then permeabilized and actin filaments stained with phalloidin-488 (shown in green). Formed phagosomes are indicated with a star. Abortive phagocytic cups, evident in cells receiving siRNA directed towards *ARHGAP12* or *ARHGAP25* and challenged with large particles, are signaled with arrows. Scale bar, 10  $\mu$ m. Micrographs are representative of 3 independent experiments; at least 20 cells were assessed per replicate.



**Supplementary Figure 6: Images of uncropped gels and blots.** Images are shown in their original full-size form, as they appeared before being cropped for presentation purposes. Dashed red boxes demarcate the portions of the blots that are displayed in the final figures. **(a)** Full gel for figure 2g, indicating endogenous levels of expression of different RhoGAPs, as assessed by RT-PCR. The lower bands at 200 bp correspond to the positive control *GAPDH*; all other bands correspond to RhoGAP messages. The lanes in this gel are indicative of expression of the following transcripts: 1) *MYO9B*; 2) *ARHGAP24*; 3) *OPHN1*; 4) *ARHGAP25*; 5) *BCR*; 6) *ARHGAP12*; 7) *SH3BP1*; 8) *ARHGAP9*; 9) *PIK3R1* and; 10) *GRLF1*. **(b-d)** Full blots for Supplementary Fig. 5a-c. Each blot shows the relative protein levels of SH3BP1 **(b)**, ARHGAP25 **(c)** or ARHGAP12 **(d)** following electroporation with a non-targeting siRNA (lane 1), or with siRNA directed against *ARHGAP12* (lane 2), *ARHGAP25* (lane 3) or *SH3BP1* (lane 4). GAPDH, detected with a fluorescently conjugated secondary antibody and shown in green, was used as a loading control in all three blots.

Name	Sequence (5'→3')	Location on target	Length (bp)	Melting Temp. (°C)	Amplicon length (bp)
<i>Myo9B</i> (forward)	agtgtatcgtcatctctggtgagagtgg	Exon 2	28	59.9	473
<i>Myo9B</i> (reverse)	catctccatggcctgtgaagc	Exon 6	22	60.5	
<i>Arhgap24</i> (forward)	tggaagactgggtgaagtccatcc	Exon 4	24	60	523
<i>Arhgap24</i> (reverse)	ttctgtgcgctcatctgttaactcc	Exon 8	26	59.7	
<i>Ophn1</i> (forward)	ggagttcagcgactgctacctcg	Exon 1	23	59.1	567
<i>Ophn1</i> (reverse)	ttgaacttcttgactcctggacttcc	Exon 7	27	59.2	
<i>Arhgap25</i> (forward)	aaggtgggctggctgaagaagc	Exon 2	22	60.5	627
<i>Arhgap25</i> (reverse)	caggaacccttcatactgactccaagg	Exon 6	27	61.1	
<i>Bcr</i> (forward)	gctgaggaacagcgccgg	Exon 2	18	58.9	744
<i>Bcr</i> (reverse)	cgtgatctcctcgttgatgctgg	Exon 8	23	60.4	
<i>Arhgap12</i> (forward)	gactcacattctcctaaagttccagcc	Exon 3	28	59.8	562
<i>Arhgap12</i> (reverse)	gttcatccagctcttctgaccaacc	Exon 5	25	59.1	
<i>Sh3bp1</i> (forward)	atcctagccgagttgagatgacc	Exon 5	25	59.7	659
<i>Sh3bp1</i> (reverse)	tctgaggccatggtctgcttaagg	Exon 11	24	60.4	
<i>Arhgap9</i> (forward)	catggcttgcctctctgaacagc	Exon 3	24	59.2	612
<i>Arhgap9</i> (reverse)	tccaattcgtcatcctcaccagc	Exon 8	23	59.8	
<i>Pik3r1</i> (forward)	aactccgagacactgctgatggg	Exon 10	23	59.1	653
<i>Pik3r1</i> (reverse)	catgctgttgcgatctctcgg	Exon 14	22	59.2	
<i>Arhgap35</i> (forward)	tctgacagtgagatggacacaagttcc	Exon 2	27	59.5	619
<i>Arhgap35</i> (reverse)	caatctgcatgctgtatggtaccagg	Exon 5	26	60.5	
<i>Gapdh</i> (forward)	aacgggaagcccatcaccatc	Exon 3	21	62.8	203
<i>Gapdh</i> (reverse)	tggttcacacccatcacaacatgg	Exon 4	25	63.9	

**Supplementary Table 1: Primers employed to detect endogenous RhoGAP expression in RAW 264.7 cells.**