**Supplementary materials 1**

**Table 1 Forward and reverse primer pairs.**

|  |  |  |
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| **Gene names** | **Forward** | **Reverse** |
| Ptprc Fn1 Tyrobp Emr1 Itgb2 Itgax Cd44 CtSS Ly86 Aif1 | GTGCCCATCAGTTCCTTACATCCTGTCTACCTCACAGACTACTGTGGTGTCCAGTGCATATCATTGCGGGATTCCTACACTATCTTTACTTGCGACCAGGACAGGTGCCCATCAGTTCCTTACAGCAGAAATCAAGACGTTATGGGGACGCTTCCTATCCCTACAAAGTGGGTCACTCTTCCGATCTTAGGAGTTTGATCTGAATGGAAATGG | GTCAGCTCCACAGTTCTTCTCGTCTACTCCACCGAACAACAAGACTTAATCCTCCCACAGTCAGTTCACCACCTTCAGGTTTCTCGAGGAGAGATCCATGAGGTAGTGTCAGCTCCACAGTTCTTCTCAAGCACCACCACCAAAGACCAAACGGGAGCTGAATGTAACTCAGGGTCCTCAGAAATAGATTCAGCTCTAGGTGGGTCTT |

**Table 2 Differentially expressed genes (DEGs).**

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| 2.53 |
| 2.53 |
| -2.53 |
| 2.53 |
| 2.53 |
| 2.52 |
| -2.51 |
| -2.51 |
| 2.51 |

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|  |
| --- |
| Angpt2 |
| Prrt4 |
| Syt7 |
| Hyal2 |
| Ivns1abp |
| H2-Eb1 |
| Ptpre |
| Hoxa5 |
| Cd74 |
| Mfap5 |
| Cd180 |
| Wnk4 |
| H2-Aa |
| Fndc1 |
| Pdlim3 |
| Ctgf |
| Lat2 |
| Vim |
| Prmt2 |
| H2-Ab1 |
| Col4a4 |
| Plek |
| Kctd12 |
| Mmp12 |
| Arrb2 |
| Klk10 |
| Icam2 |
| Aif1 |
| Arhgap20 |
| Gprc5a |
| Fam20a |
| Gadd45a |
| Dusp8 |
| Stmn2 |
| Krt18 |
| Edn1 |
| Bcam |
| B4galnt1 |
| Slc52a3 |
| Itpr2 |
| Eln |
| Ptprj |
| Serpina1a |
| Aldh3a1 |
| Sdc2 |
| Cxx1a |
| Fxyd6 |
| Clec7a |
| Atp2b2 |
| Nxpe2 |
| Lamc1 |
| Adra2a |
| Plekha6 |
| Npm1 |
| Arhgef2 |
| Hbb-bs |
| Rfwd2 |
| Depdc7 |
| Lynx1 |
| Calcrl |
| Ncf4 |
| Slc39a6 |
| Parvg |
| Tpbgl |
| Tek |
| Ctsc |
| Nckap1l |
| Axl |
| Pip4k2a |
| Klf4 |
| Ctps |
| Aspm |
| Tyrobp |
| Hist1h2bc |
| Ppm1f |
| Hmga1 |
| Igfbp4 |
| Bok |
| Rps6kl1 |
| Grasp |
| Tppp |
| Rhoq |
| Serpina1e |
| Atl2 |
| Ccl5 |
| Ctss |
| Egr2 |
| Aqp1 |
| Itga9 |
| Hbb-bt |
| Laptm5 |
| Mpeg1 |
| Twist1 |
| Ltbp4 |
| Nicn1 |
| Mgll |
| Tgfbi |
| Dcn |
| C1qb |
| Phf1 |
| Dusp6 |
| Fcgr4 |
| Aifm2 |
| Fbrsl1 |
| Per2 |
| Bhlhe40 |
| BC028528 |
| Lims2 |
| Emp2 |
| Ephx1 |
| Cd40 |
| Jam2 |
| Tbxas1 |
| Serpina3g |
| C1qa |
| Flnc |
| Hspe1 |
| Sec14l2 |
| Ptprr |
| Hadh |
| Cds2 |
| Efcab14 |
| Rbm47 |
| Coro1a |
| Kitl |
| Slc4a4 |
| Abat |
| Man2c1 |
| Rhpn2 |
| Atf4 |
| H2-DMa |
| Bcl10 |
| Fcer1g |
| Gkn3 |
| Slc25a5 |
| Cd300ld |
| Scd1 |
| Neurl3 |
| Glrx |
| Fam135a |
| Ms4a6b |
| Zbtb7c |
| Fosl2 |
| Ly86 |
| Sele |
| Pitpnm3 |
| Clec10a |
| Adamtsl4 |
| Ace |
| C1qc |
| Dusp3 |
| Ccm2l |
| Bcl2a1d |
| Klf2 |
| Kcnt2 |
| Cdh1 |
| Eef1b2 |
| Actl6a |
| Tmem184b |
| Ly6c1 |
| Nos3 |
| Epb41l4a |
| Clip1 |
| Atp1b1 |
| Sqrdl |
| Rrm2b |
| Plac9a |
| Ptgs1 |
| Spon1 |
| Stbd1 |
| Lamb2 |
| Rassf8 |
| Sfxn3 |
| AI607873 |
| Lilr4b |
| St6galnac2 |
| Myl9 |
| Cyp1b1 |
| Gstk1 |
| Fam107a |
| Lyz1 |
| Nme7 |
| Dbp |
| Fmo5 |
| Col4a3 |
| Cd53 |
| Arpc3 |
| Marveld1 |
| Nrg1 |
| Cfp |
| Cdc42ep3 |
| Smad1 |
| Parm1 |
| Kif1b |
| Mterf4 |
| Hist2h3b |
| Btg1 |
| Fgr |
| Slc9a3r2 |
| Cstf3 |
| Mlec |
| Adgre1 |
| Ski |
| Rcc1 |
| Aph1b |
| Klf7 |
| Klf12 |
| Cald1 |
| Nrbp2 |
| Cotl1 |
| Fhl1 |
| S100a9 |
| Cxcl12 |
| Hsd3b7 |
| Mcam |
| Amigo2 |
| Birc5 |
| Stk17b |
| Car8 |
| Mrc1 |
| Nod2 |
| Cd44 |
| Gria3 |
| Vmp1 |
| Nme1 |
| Pkib |
| Lst1 |
| Col8a1 |
| Vav1 |
| Il10ra |
| Pcolce2 |
| Lyz2 |
| Lilrb4a |
| Mmp13 |
| Rnf144a |
| Rnase6 |
| Klk11 |
| Rab27a |
| Klk8 |
| Marcks |
| Hdgfrp3 |
| Mndal |
| Igf2 |
| Dhh |
| Ddah1 |
| Rgs10 |
| Epas1 |
| Itgb4 |
| Plec |
| Ecm1 |
| Cybb |
| Cdca8 |
| Klf9 |
| Galnt15 |
| Cd52 |
| Bcl2a1b |
| Fam129b |
| Rpl24 |
| Hist1h3h |
| Cldn15 |
| Cd300ld3 |
| Krt80 |
| Prr33 |
| Cyfip2 |
| Actb |
| Ugt1a10 |
| Ccl4 |
| Prc1 |
| Nuak1 |
| Cmip |
| Lsr |
| Cc2d2a |
| Spint1 |
| Gng2 |
| Peg13 |
| Slc43a2 |
| Psat1 |
| Sgms1 |
| Tubb6 |
| Gas6 |
| Ptprc |
| Plbd1 |
| Irf5 |
| Cers6 |
| Ppic |
| Lpl |
| Nrros |
| Pi16 |
| Tns2 |
| Lcp1 |
| Hba-a1 |
| Hist1h4a |
| Bmx |
| Appl2 |
| Meis2 |
| Gja1 |
| Gmfg |
| Zwint |
| Itgb2 |
| Cxcr4 |
| Hist1h3e |
| Maml2 |
| AB124611 |
| Fn1 |
| Sos2 |
| Il1b |
| Klra2 |
| Rassf4 |
| Aurka |
| Fyb |
| Itgax |
| Tsc22d1 |
| Myrip |
| Sla |
| Uhrf1 |
| Lgals1 |
| Fam105a |
| Hist1h4c |
| Tubb2b |
| Cgnl1 |
| Hist1h3d |
| Il17ra |
| Hist2h2ab |
| Rab7b |
| C3ar1 |
| Mxi1 |
| Pacs1 |
| Cytl1 |
| Was |
| Apobr |
| Itpr1 |
| Wasf2 |
| Mfsd6 |
| Ankle1 |
| Siglece |
| Adgre4 |
| Lgals3 |
| Lamb1 |
| Lcp2 |
| Ndn |
| Adh7 |
| Hist1h4j |
| Gpr65 |
| Fam49a |
| Hist2h2ac |
| Cks1b |
| Rnd3 |
| Ypel3 |
| Hist1h2an |
| Hist1h2af |
| Hbegf |
| Hist2h3c1 |
| Hist1h4f |
| Pld4 |
| Hist1h2ai |
| Pf4 |
| Hist1h2ap |
| Gcnt2 |
| Clec4a1 |
| Atp2a3 |
| Ly6a |
| Peg3 |
| AU021092 |
| Gm2a |
| Cd300a |
| Hist1h2ak |
| Perp |
| Hist4h4 |
| Dnah11 |
| Hist1h2ad |
| Sod3 |
| Sult1a1 |
| S100a4 |

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**Table 3 GO（BP）enrichment analysis.**

|  |  |  |
| --- | --- | --- |
| GO term | Count | PValue |
|

|  |
| --- |
| GO:0002376~immune system process |
| GO:0032776~DNA methylation on cytosine |
| GO:0007155~cell adhesion |
| GO:0006335~DNA replication-dependent nucleosome assembly |
| GO:0045815~positive regulation of gene expression, epigenetic |
| GO:0051290~protein heterotetramerization |
| GO:0045766~positive regulation of angiogenesis |
| GO:0006334~nucleosome assembly |
| GO:0000183~chromatin silencing at rDNA |
| GO:0006954~inflammatory response |

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|  |
| --- |
| 31 |
| 11 |
| 32 |
| 10 |
| 10 |
| 10 |
| 14 |
| 13 |
| 10 |
| 22 |

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|  |
| --- |
| 4.74E-11 |
| 2.23E-10 |
| 3.35E-09 |
| 7.03E-09 |
| 7.03E-09 |
| 1.97E-07 |
| 4.78E-07 |
| 6.09E-07 |
| 8.04E-07 |
| 2.57E-06 |

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**Table 4 GO (CC) enrichment analysis.**

|  |  |  |
| --- | --- | --- |
| GO term | Count | P Value |
|

|  |
| --- |
| GO:0070062~extracellular exosome |
| GO:0000786~nucleosome |
| GO:0031012~extracellular matrix |
| GO:0016020~membrane |
| GO:0000228~nuclear chromosome |
| GO:0005615~extracellular space |
| GO:0005578~proteinaceous extracellular matrix |
| GO:0009986~cell surface |
| GO:0005576~extracellular region |
| GO:0005925~focal adhesion |

 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| 123 |
| 19 |
| 27 |
| 180 |
| 11 |
| 57 |
| 21 |
| 31 |
| 60 |
| 23 |

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|  |
| --- |
| 1.56E-23 |
| 9.93E-13 |
| 3.38E-11 |
| 1.24E-08 |
| 3.44E-08 |
| 2.26E-07 |
| 1.55E-06 |
| 1.71E-06 |
| 2.84E-06 |
| 3.24E-06 |

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**Table 5 GO (MF) enrichment analysis.**

|  |  |  |
| --- | --- | --- |
| GO term | Count | P Value |
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|  |
| --- |
| GO:0005515~protein binding |
| GO:0042393~histone binding |
| GO:0031492~nucleosomal DNA binding |
| GO:0019901~protein kinase binding |
| GO:0043236~laminin binding |
| GO:0046982~protein heterodimerization activity |
| GO:0003779~actin binding |
| GO:0019899~enzyme binding |
| GO:0030246~carbohydrate binding |
| GO:0031720~haptoglobin binding |

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|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| 123 |
| 14 |
| 8 |
| 22 |
| 6 |
| 24 |
| 18 |
| 19 |
| 13 |
| 3 |

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|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| 1.23E-08 |
| 6.10E-07 |
| 1.01E-05 |
| 7.84E-05 |
| 1.08E-04 |
| 1.18E-04 |
| 2.39E-04 |
| 3.74E-04 |
| 0.001373 |
| 0.002062 |

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**Table 6 KEGG pathway enrichment analysis.**

|  |  |  |
| --- | --- | --- |
| KEGG term | Count | P Value |
|

|  |
| --- |
| mmu05322:Systemic lupus erythematosus |
| mmu05034:Alcoholism |
| mmu05150:Staphylococcus aureus infection |
| mmu05152:Tuberculosis |
| mmu04145:Phagosome |
| mmu05144:Malaria |
| mmu04514:Cell adhesion molecules (CAMs) |
| mmu05310:Asthma |
| mmu04672:Intestinal immune network for IgA production |
| mmu04810:Regulation of actin cytoskeleton |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| 29 |
| 23 |
| 10 |
| 17 |
| 15 |
| 8 |
| 14 |
| 6 |
| 7 |
| 15 |

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|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| 1.34E-17 |
| 4.74E-09 |
| 3.23E-06 |
| 7.38E-06 |
| 8.84E-05 |
| 1.68E-04 |
| 1.94E-04 |
| 2.66E-04 |
| 5.55E-04 |
| 8.57E-04 |

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**Figure S1. Protein–protein interaction networks of differentially expressed genes.**



Circles represent genes, lines represent interactions between geneencoded proteins and line colors represent evidence of interactions between proteins.

**Figure S2 Expression of F4/80 protein in the carotid artery 7 days after ligation by immunohistochemistry.**



1. **B)** Immunohistochemistry staining and quantitative analysis of F4/80 protein of carotid artery tissues. The arteries were harvested from uninjured RCA (that underwent a sham operation) and injured LCA at 7 days after surgery. The red arrows represent positive cells. Two-tailed unpaired Student’s t-test is used to compare two groups. Data are expressed as means ±SEM. n=3. \*, *P*＜0.05; compared with the RCA group. Original magnification, 100x. Scale bar: 50 μm.

**Figure S3 Changes in the expression of BRCC36 mRNA over time.**

 ****

The expression changes of BRCC36 mRNA levels in mouse carotid arteries at 0 days, 7 days, 14 days and 28 days after ligation. All values have been standardized by GAPDH. Two-tailed unpaired Student’s t-test is used to compare two groups. Data are expressed as means ±SEM. n=5-6. \*\*\*, *P*＜0.001.