SUPPLEMENTARY TABLE 3

Accession number	Title/Description	Platforms	Citation(s)	Source
GSE11202	Characterization of the regulatory networks mediating TLR9 dependent gene activation in vivo	GPL4200 NCI/ATC Mm-MEEBO	Klaschik S, Tross D, Klinman DM. Inductive and suppressive networks regulate TLR9-dependent gene expression in vivo. *J Leukoc Biol* 2009 May;85(5):788-95.	GEO Datasets Gene Expression Omnibus
E-TABM-823	Analysis of whole mouse lung gene expression signature induced by in-vivo intrapulmonary administration of CpG. CpG-containing oligodeoxynucleotides are potent mucosal adjuvants and effective as stand-alone treatment of respiratory infections in mice.	Array design A-MEXP-829 - Agilent Whole Mouse Genome 012694 G4122A	Pesce I, Monaci E, Muzzi A, Tritto E, Tavarini S, Nuti S, De Gregorio E, Wack A. Intranasal administration of CpG induces a rapid and transient cytokine response followed by dendritic and natural killer cell activation and recruitment in the mouse lung. *J Innate Immun.* 2010 Feb;2(2):144-59.	ArrayExpress Archive
E-TABM-506	Analysis of whole mouse muscle gene expression signature induced by in-vivo intramuscularly administration of MF59, CpG, MF59+CpG, alum and PBS. MF59 and alum are licensed human vaccine adjuvants; CpG is a TLR-agonist adjuvant.	Array design A-MEXP-829 - Agilent Whole Mouse Genome 012694 G4122A	Mosca F, Tritto E, Muzzi A, Monaci E, Bagnoli F, Iavarone C, O'Hagan D, Rappuoli R, De Gregorio E Molecular and cellular signatures of human vaccine adjuvants. *Proc Natl Acad Sci U S A*. 2008 Jul 29;105(30):10501-6..	ArrayExpress Archive
GSE18203	Intratumoral injection of CpG1826	GPL6246 [MoGene-1_0-st] Affymetrix Mouse Gene 1.0 ST Array [transcript (gene) version	Westwood JA, Haynes NM, Sharkey J, McLaughlin N, Pegram HJ, Schwendener RA, Smyth MJ, Darcy PK, Kershaw MH. Toll-Like Receptor Triggering and T-Cell Costimulation Induce Potent Antitumor Immunity in Mice. *Clin Cancer Res*. 2009 Dec 15;15(24):7624-7633.	GEO Datasets Gene Expression Omnibus

Accession number	Title/Description	Platforms	Citation(s)	Source
	Ovarian Cancer Dataset	GPL96 [HG-U133A] Affymetrix Human Genome U133A Array	Bild AH, Yao G, Chang JT, Wang Q, Potti A, Chasse D, Joshi MB, Harpole D, Lancaster JM, Berchuck A, Olson JA Jr, Marks JR, Dressman HK, West M, Nevins JR. Oncogenic pathway signatures in human cancers as a guide to targeted therapies. *Nature*. 2006 Jan 19;439(7074):353-7.	http://data.cgt.duke.edu/oncogene.php
	Breast Cancer Dataset	Hu25K oligonucleotide microarrays	van de Vijver MJ, He YD, van't Veer LJ, Dai H, Hart AA, Voskuil DW, Schreiber GJ, Peterse JL, Roberts C, Marton MJ, Parrish M, Atsma D, Witteveen A, Glas A, Delahaye L, van der Velde T, Bartelink H, Rodenhuis S, Rutgers ET, Friend SH, Bernards R. A gene-expression signature as a predictor of survival in breast cancer. *N Engl J Med.* 2002 Dec 19;347(25):1999-2009.	http://www.rii.com/publications/2002/nejm.html
GSE20032	Comparison of Genes in Imiquimod-treated and Control Tumors	GPL9974 Illumina mouseRef-8 v1.0a expression beadchip	Lu H, Wagner WM, Gad E, Yang Y, Duan H, Amon LM, Van Denend N, Larson ER, Chang A, Tufvesson H, Disis ML. Treatment failure of a TLR-7 agonist occurs due to self-regulation of acute inflammation and can be overcome by IL-10 blockade. *J Immunol.* 2010 May 1;184(9):5360-7.	GEO Datasets Gene Expression Omnibus

Supplementary table 3. List of published datasets used for the *in silico* analyses.