Suppl. Table 1. TaqMan Low Density Array Card Scheme

Gene Symbol	GeneName	Chromosome	Assay ID	ContextSequence[a]
PLA2 GROUP				
PLA2G2A	phospholipase A2, group IIA (platelets, synovial fluid)	1	Hs00179898_m1	CAGAATCACCTGTGCAAAACAGGAC
PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)	1	Hs00233352_m1	CATTCTGCACGTGATGTGCCTGTGG
PLA2G5	phospholipase A2, group V	1	Hs00173472_m1	GTTCCTGGCTTGTAGTGTGCCTGCT
PLA2G6	phospholipase A2, group VI (cytosolic, calcium-independent)	22	Hs00185926_m1	TGGCCATTCTGCACAGTAAGTCCAT
PLA2G7	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	6	Hs00965837_m1	CATATACGAAATGAGCAGGTACGGC
PAFAH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)	17	Hs00181182_m1	AGAACCATGCACGGCCATGACCACA
PLA2G10	phospholipase A2, group X	16	Hs00358567_m1	GTCCTGTGCGGACCGGCAGAGAACA
PLA2G15	phospholipase A2, group XV	16	Hs00952741_m1	TTGACAATATCAGGCTGGTTTACAA
PLA2R1	phospholipase A2 receptor 1, 180kDa	2	Hs00234853_m1	GAGCAGTCTGAGGGACACTGGAAAG
ANXA1	annexin A1	9	Hs00167549_m1	ATTCAGATGCCAGGGCCTTGTATGA
EICOSANOID'S PATHWAY				
LTA4H	leukotriene A4 hydrolase	12	Hs00168505_m1	AAAGATGGATTACTGCCAAAGAAGA
LTC4S	leukotriene C4 synthase	5	Hs00168529_m1	TGCTGCAAGCCTACTTCTCACTGCA
ALOX5	arachidonate 5-lipoxygenase	10	Hs01095330_m1	CAGGAGGTCCAGCAAGGGAACATTT
ALOX12	arachidonate 12-lipoxygenase	17	Hs00167524_m1	CTTCAAGTTCCTGATCCCCCATATC
PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	9	Hs00377726_m1	GAAACTCAAGTACCAGGTGCTGGAT
PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	1	Hs00153133_m1	CTGGGCCATGGGGTGGACTTAAATC
CYSLTR1	cysteinylleukotriene receptor 1	X	Hs00929113_m1	CCAGAAAGAGGCACAAAGCAGACAT
CYSLTR2	cysteinylleukotriene receptor 2	13	Hs00252658_s1	TTAGTTGACCTTGCTGCAGTTCTCC
LTB4R	leukotriene B4 receptor	14	Hs01938704_s1	TCCCACAGGCAGCTTTAACCATTAA
LTB4R2	leukotriene B4 receptor 2	14	Hs01885851_s1	GGAACTACGGCCTTGGCCTTCTTCA
TRANSCRIPTION FACTORS				
FOXP1	forkheadbox P1	3	Hs00212860_m1	CCTATGCAAGCCGTGCATCCTGTAC
GATA3	GATA binding protein 3	10	Hs00231122_m1	CCCACCACGGGAGCCAGGTGTGCCG
HDAC2	histonedeacetylase 2	6	Hs00231032_m1	ACAGGAGACTTGAGGGATATTGGTG
IREB2	iron-responsive element binding protein 2	15	Hs00386293_m1	GTGCCTGAACCTGAAACAGTGTTAA
NLRP3	NLR family, pyrin domain containing 3	1	Hs00918082_m1	GAGCCGAAGTGGGGTTCAGATAATG
PPARG	peroxisome proliferator-activated receptor gamma	3	Hs00234592_m1	TATTCTCAGTGGAGACCGCCCAGGT
SOX6	SRY (sex determining region Y)-box 6	11	Hs00264525_m1	CAAGAACAGATTGCGAGACAACAGC
STAT4	signal transducer and activator of transcription 4	2	Hs01028017_m1	TGAAAATCAAGACTGGGAGGCAGCT
NFKB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	4	Hs00765730_m1	ACAACTATGAGGTCTCTGGGGGTAC
CYTOKINES				
IFNG	interferon, gamma	12	Hs00989291_m1	TAATTATTCGGTAACTGACTTGAAT
IL10	interleukin 10	1	Hs00961622_m1	AATAAGCTCCAAGAGAAAGGCATCT
IL13	interleukin 13	5	Hs99999038_m1	CAGAACCAGAAGGCTCCGCTCTGCA
IL17A	interleukin 17A	6	Hs00174383_m1	GAATCTCCACCGCAATGAGGACCCT
IL18	interleukin 18 (interferon-gamma-inducing factor)	11	Hs99999040_m1	AGAGATAATGCACCCCGGACCATAT
IL1B	interleukin 1, beta	2	Hs01555410_m1	CAGATGAAGTGCTCCTTCCAGGACC

IL1RL1	interleukin 1 receptor-like 1	2	Hs00249384_m1	GTCAAGGATGAGCAAGGCTTTTCTC
IL33	interleukin 33	9	Hs00369211_m1	AAGGAACACTCTGTGGAGCTCCATA
IL4	interleukin 4	5	Hs00174122_m1	TGGCGGGCTTGAATTCCTGTCCTGT
IL5	interleukin 5 (colony-stimulating factor, eosinophil)	5	Hs00174200_m1	AAAAATCACCAACTGTGCACTGAAG
IL6	interleukin 6 (interferon, beta 2)	7	Hs00985639_m1	TCAGCCCTGAGAAAGGAGACATGTA
IL8	interleukin 8	4	Hs99999034_m1	CAGCTCTGTGTGAAGGTGCAGTTTT
TSLP	thymicstromallymphopoietin	5	Hs00263639_m1	TCGGAAACTCAGATAAATGCTACTC
AIRWAY REMODELING				
ADAM33	ADAM metallopeptidasedomain 33	20	Hs00905552_m1	CAGCCTGGAGGAGCCGGTCTCGAAG
CHI3L1	chitinase 3-like 1 (cartilage glycoprotein-39)	1	Hs00609691_m1	GTGCTGCTCCAGTGCTGCTCTGCAT
MMP9	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	20	Hs00234579_m1	AGTACCGAGAGAAAGCCTATTTCTG

[a]The 25bp context sequence contains the probe sequence

Suppl. Table 2. Changes in PBMC expression profile after stimulation wit rFel d1 (1,25µg/ml).

GROUP	GENE NAME	HEALTHY RQ		ASTHMA RQ	
		Mean	SEM	Mean	SEM
PHOSPHOLIPASES A2	*PAFAH1B1*	1,01	0,13	1,26	0,19
	PLA2G15	1,42	0,29	0,87	0,22
	PLA2G4A	1,14	0,26	1,56	0,31
	PLA2G6	1,26	0,18	1,16	0,15
	PLA2G7	1,27	0,22	1,43	0,36
	PLA2R1	1,42	0,51	0,53	0,27
	ANXA1	1,23	0,16	1,14	0,22
EICOSANOIDS	*ALOX12*	0,97	0,28	0,55	0,18
	ALOX5	1,48	0,35	1,98	0,98
	CYSLTR1	1,28	0,15	1,20	0,22
	CYSLTR2	1,18	0,37	1,88	0,54
	LTA4H	1,31	0,28	1,43	0,49
	LTB4R	1,52	0,21	1,24	0,20
	LTB4R2	1,22	0,13	1,10	0,14
	LTC4S	2,18	0,71	1,15	0,10
	PTGS1	1,22	0,13	1,16	0,20
	PTGS2	1,40	0,55	5,77	2,78
TRANSCRIPTION FACTORS	*FOXP1*	1,16	0,14	1,21	0,06
	GATA3	1,18	0,18	1,12	0,09
	HDAC2	2,08	1,06	1,26	0,33
	IREB2	1,12	0,15	1,11	0,19
	NLRP3	1,77	0,26	1,24	0,22
	PPARG	1,21	0,14	1,46	0,34
	SOX6	2,14	1,12	0,75	0,14
	STAT4	1,03	0,15	1,26	0,19
	NFKB1	1,18	0,24	0,99	0,23
CYTOKINES	*IFNG*	1,09	0,35	2,26	1,20
	IL10	1,53	0,32	1,98	0,86
	IL13	1,12	0,40	1,85	0,28
	IL17A	0,92	0,32	9,44	7,28
	IL18	1,00	0,18	1,62	0,61
	IL1B	1,46	0,51	6,71	4,02
	IL1RL1	1,98	0,30	1,22	0,25
	IL4	1,07	0,22	1,50	0,67
	IL5	1,38	0,59	2,40	0,84
	IL6	0,80	0,27	7,71	5,02
	IL8	1,73	0,56	4,08	2,17
	TSLP	1,42	0,22	1,56	0,31
REMODELING	*CHI3L1*	0,84	0,19	1,48	0,31
	MMP9	1,44	0,19	1,40	0,52