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Table 1: List of primers sequences (Rat) for carbohydrate and fat metabolism with its amplicon size

Gene	Accession number	Sequence (5'→3')	Product size
Glucokinase	NM_012565.1	**F:** AGTATGACCGGATGGTGGAT **R:** CCGTGGAACAGAAGGTTCTC	139
GLUT 2	NM_012879.1	**F:** CATTGCTGGAAGAAGCGTATCAG **R:** GAGACCTTCTGCTCAGTCGACG	408
PEPCK	NM-198780	**F:** GTCACCATCACTTCCTGGAAGA **R:** GGTGCAGAATCGCGAGTTG	84
Adiponectin	NM_144744.2	**F:** AATCCTGCCCAGTCATGAAG **R:** CATCTCCTGGGTCACCCTTA	215
LPL	NM_012598.1	**F:** GAGATTTCTCTGTATGGCACA **R:** CTGCAGATGAGAAACTTTCTC	276
Leptin	NM_013076.2	**F:** ACACCAAAACCCTCATCAAGA **R:** GAAGGCAAGCTGGTGAGGA	184
SREBP-1c	XM_213329.4	**F:** GGCCTGCTTGGCTCTTCTC **R:** GCCAGCCACAGCTGTTGAG	150
PPAR-γ	NM_013124	**F:** GGATTCATGACCAGGGAGTTCCTC **R:** GCGGTCTCCACTGAGAATAATGAC	156
GLUT-4	NM_012751.1	**F:** GCCTTCTTTGAGATTGGTCC **R:** CTGCTGTTTCCTTCATCCTG	457
β-Actin	NM_031144	**F:** CCTGCTTGCTGATCCACA R: CTGACCGAGCGTGGCTAG	505

Table 2: List of primers sequences (Human) for fat metabolism with its amplicon size

Gene	Accession number	Sequence (5'→3')	Product size
SREBP-1c (H)	NM_001005291	**F:** TGCATTTTCTGACACGCTTC **R:** CCAAGCTGTACAGGCTCTCC	171
PPAR-γ (H)	NM_138712	**F:** GTGGCCGCAGATTTGAAAGA **R:** TGATCCCAAAGTTGGTGGGC	138
ACC-1(H)	NM_198834	**F:** TTTAAGGGGTGAAGAGGGTGC **R:** CCAGAAAGACCTAGCCCTCAAG	171
FAS (H)	NM_004104	**F:** CACAGGGACAACCTGGAGTT **R:** ACTCCACAGGTGGGAACAAG	97
CPT 1 (H)	NM_001876	**F:** TCGTCACCTCTTCTGCCTTT **R:** ACACACCATAGCCGTCATCA	206
Actin-β(H)	NM_001101	**F:** ACTCTTCCAGCCTTCCTTCC **R:** CGTACAGGTCTTTGCGGATG	101

Table 3: List of primers sequences (L6) for carbohydrate metabolism with its amplicon size

Gene	Accession number	Sequence (5'→3')	Product size
GLUT-4	NM_012751.1	**F:** GCCTTCTTTGAGATTGGTCC **R:** CTGCTGTTTCCTTCATCCTG	457
Glycogen phosphorylase	NM_012638.1	**F:** GGCAACATGAAGTTCATGCT **R:** ATCAGGACCTAGAGACTGGT	640
G6Pase	NM_013098.1	**F:** ACTGGTTCAACCTCGTCTT **R:** CGAAAGATAGCGAGAGTAGA	211
Actin-β(H)	NM_001101	**F:** ACTCTTCCAGCCTTCCTTCC **R:** CGTACAGGTCTTTGCGGATG	101

Table 4: List of primers sequences (3T3-L1) for transcription factor of adipogenesis with its amplicon size

Gene	Accession number	Sequence (5'→3')	Product size
C/EBP-β	NM_009883.3	**F:** GCAAGAGCCGCGACAAG **R:** GGCTCGGGCAGCTGCTT	154
PPAR-γ (M)	NM_001127330.1	**F:** AGGCCGAGAAGGAGAAGCTGTTG **R:** TGGCCACCTCTTTGCTCTGCTC	274
Adiponectin	NM_009605.4	**F:** TGTTCCTCTTAATCCTGCCCA **R:** CCAACCTGCACAAGTTCCCTT	104
aP2	GenBank: BC054426.1	**F:** TCGATGAAATCACCGCAGAC **R:** TGTGGTCGACTTTCCATCCC	102
CD36	NM_007643	**F:** GATGTGGAACCCATAACTGGATTCAC **R:** GGTCCCAGTCTCAATTAGCCACAGTA	150
LPL	NM_008509.2	**F:** GGGAGTTTGGCTCCAGAGTTT **R:** TGTGTCTTCAGGGGTCCTTAG	115
Leptin (R,M)	NM_013076.2	**R:** GAAGGCAAGCTGGTGAGGA **F:** ACACCAAAACCCTCATCAAGA	184
ACC-1 (R,M)	NM_022193.1	**F:** ACCGGCTGAGTGATGGTGG **R:** GGGAGCGCATTACAGACGG	150
SREBP-1c (R,M)	XM_213329.4	**F:** GGCCTGCTTGGCTCTTCTC **R:** GCCAGCCACAGCTGTTGAG	150
β-Actin (House keeping gene)	NM_007393.3	**F:** GCAAGAGAGGCATCCTCACC **R:** CGTAGATGGGCACAGTGTGG	101
GAPDH	NC_000072.6	**F:** CAAGGTCATCCATGACAACTTTG **R:** GTCCACCACCCTGTTGCTGTAG	496

Table 5: Chromatin Immunoprecipitation primers (3T3-L1)

Gene & Accession number	Position	Sequence (5'→3')
Chip1 PPAR-γ	−738 to −439	**F:** CACTTAAACATCAACCATTGG **R:** GGAGTTTCAACCAAAGATAA
Chip 2 PPAR-γ	−277 to −112	**F:** TTCACGCCCCTCACAGAACA **R:** GTGCCAGCCAATTCAGGCCTG
C/EBP-α	-405 to -36 bp	**F:** TCCAAACGCTCCCCAACCTC **R:** TTATAGAGGGTCGGGCATCG
C/EBP-β	-325 to +184	**F:** TAGCTGGAGGAACGATCTGT **R:** TTGGCCACTTCCATGGGTCT
C/EBP-δ	-224 to +83	**F:** GTCGGGGCCAAATCCAGATT **R:** TAGAAGGCCGCGGGTTCTGT
GAPDH	-	**F:** CGACCACTTTGTCAAGCTCA **R:** AGGGGTCTACATGGCAACTG

Table 6: siRNA primers

siRNA	Sequence (5'→3')	Stock Concentration	Working Concentration
siP912-27 mer Sence	CAAGCACAGUGUCAAAGGUUUGGGC	100μM	250pM
siP912-27 mer antisence	GCCCAAACCUUUGACACUGUGCUUGCC		

Table 7: Antibody for Western Blotting

Name of Antibody	Company and Catalog No.	Mono/Poly clonal	Mol. Weight (kDa)	Isotype	Dilution
PI(3)K p85(19H8)	Cell Signaling #4257	Mono	85	Rabbit	1:1000
Insulin Receptor β (4B8)	Cell Signaling #3025	Mono	95	Rabbit	1:1000
Phospho-Tyrosine	Cell Signaling #9411	Mono	ladder	Mouse	1:2000
Phospho IRS-1	Cell Signaling #2381	Poly	180	Rabbit	1:1000
Phospho Akt	Cell Signaling #4060	Mono	60	Rabbit	1:2000
Phospho-P38 MAPK (28B10)	Cell Signaling #9216	Mono	43	Mouse	1:2000
P38 MAPK	Cell Signaling #9212	Poly	43	Rabbit	1:1000
$P_{44/42}$ MAPK (Erk1/2)	Cell Signaling #9102	Poly	42,44	Rabbit	1:1000

Protein Kinase C-zeta	Millipore #07-264	Poly	72	Rabbit	1:20,000
Protein Kinase C-ε	Research & Diagnostic Antibodies #AS-2453S	Poly	84	Rabbit	1:500
Protein Kinase C-η	BD Pharmingen	Mono	78	Rabitt	1:500
TNF-α	Cell Signaling #3707	Poly	17 (mature) 25 (premature)	Rabbit	1:1000
PPAR-α	Sigma #P 0869	Mono	52	Mouse	1:1000
PPAR-γ (C26H12)	Cell Signaling #2435	Mono	53,57	Rabbit	1:1000
C/EBP-β (LAP)	Cell Signaling #3087	Poly	35-38 mouse LAP	Rabbit	1:1000
C/EBP-β (C-19):	Santa Cruz Biotechnology # sc-150	Poly	35-38	Rabbit	1:5000
Phospho-Smad2	Cell Signaling #3108	Mono	60	Rabbit	1:1000
Phospho-Smad 3 (C25A9)	Cell Signaling #9520	Mono	52	Rabbit	1:1000
Smad2/3	Cell Signaling #8685	Mono	52,60	Rabbit	1:1000
Glut4 (C-terminal)	Sigma-Aldrich #G4048	NA	58	Rabbit	1:1000
Beta Actin	Thermo Scientific #MAI-91399	Mono	43	Mouse	1:5000 – 1:10000
Desmin	Sigma-Aldrich #D 8281		53	Rabbit	1:20
PARP (46D11)	Cell Signaling #9532	Mono	116,89	Rabbit	1:1000
PARP-1 (N-20):	Santa Cruz Biotechnology # sc-1561	Poly	116	Goat	1:1000
PARP-1	Alexis Biochemicals	Poly	116	Rabbit	1:5000

10H (pADP)	Dr. M. Miwa, National Cancer Center Research Institute, Tokyo	Mono	116-200	Mouse	1:500
PAR (LP96)	BD Pharmingen #551813	Poly	116-200	Rabbit	1:1000

Table 8: Antibody for Immunocytochemistry

Name of Antibody	Company and Catalog No.	Mono/Poly clonal	Mol. Weight (kDa)	Isotype	Dilution
α- Smooth Muscle Actin (FITC Conjugate)	Sigma #F3777	Mono	43	Mouse	1:200
Desmin	Sigma-Aldrich #D 8281	-	53	Rabbit	1:20
Phospho-Smad2	Cell Signaling #3108	Mono	60	Rabbit	1:100
Phospho-Smad 3 (C25A9)	Cell Signaling #9520	Mono	52	Rabbit	1:100
PARP (46D11)	Cell Signaling #9532	Mono	116,89	Rabbit	1:800
10H	Dr. M. Miwa, NCCRI, Tokyo	Mono	116-200	Mouse	1:500

Table 9: Antibody for Immunoprecipitation and Chromatin-Immunoprecipitation

Name of Antibody	Company and Catalog No.	Mono/Poly clonal	Mol. Weight (kDa)	Isotype	Dilution
PI(3)K p85(19H8)	Cell Signaling #4257	Mono	85	Rabbit	1:50
Insulin Receptor β (4B8)	Cell Signaling #3025	Mono	95	Rabbit	1:50
PARP (46D11)	Cell Signaling #9532	Mono	116	Rabbit	1:200
10H (pADP)	Dr. M. Miwa, NCCRI, Tokyo	Mono	116-200	Mouse	1:50
Phospho-Smad2	Cell Signaling #3108	Mono	60	Rabbit	1:100
Phospho-Smad 3 (C25A9)	Cell Signaling #9520	Mono	52	Rabbit	1:100