Supplementary Materials for

Initiation of Parental Genome Reprogramming in Fertilized Oocyte by Splicing Kinase SRPK1-Catalyzed Protamine Phosphorylation

Lan-Tao Gou, Do-Hwan Lim, Wubin Ma, Brandon E. Aubol, Yajing Hao, Xin Wang, Jun Zhao, Zhengyu Liang, Changwei Shao, Xuan Zhang, Fan Meng, Hairi Li, Xiaorong Zhang, Ruiming Xu, Dangsheng Li, Michael G. Rosenfeld, Pamela L. Mellon, Joseph A. Adams, Mo-Fang Liu, and Xiang-Dong Fu

Table S1. Chemically synthesized peptides used in this study, Related to Figure 3 and Figure S3

Protamine peptides	
P1 #1	MARYRCCRSKSRSRCRRRRRRCRRRRRRCCRRRRRRCCRRRRSYTIRCKKY
P1 #2	MARYRCCRAKSRSRCRRRRRRCRRRRRRCCRRRRRRCCRRRRSYTIRCKKY
P1 #3	MARYRCCRSKARSRCRRRRRRCRRRRRRCCRRRRRRCCRRRRSYTIRCKKY
P1 #4	MARYRCCRSKSRARCRRRRRRCRRRRRRCCRRRRRRCCRRRRSYTIRCKKY
P1 #5	MARYRCCRSKSRSRCRRRRRRCRRRRRRCCRRRRRRCCRRRRAYTIRCKKY
P1 #6	MARYRCCRAKSRSRCRRRRRRCRRRRRRCCRRRRRRCCRRRRAYTIRCKKY
P2 #1	MVRYRMRSPSEGPHQGPGQDHEREEQGQGQGLSPERVEDYGRTHRGHHHH
P2 #2	MVRYRMRAPAEGPHQGPGQDHEREEQGQGQGLSPERVEDYGRTHRGHHHH
P2 #3	RHRRCSRKRLHRIHKRRRSCRRRRRHSCRH
P2 #4	RHRRCSRKRLHRIHKRRRACRRRRRHSCRH
P2 #5	RRRHRRGCRRSRRRRRCRCRKCRRHHH
P2 #6	RRRHRRGCRRARRRRRCRCRKCRRHHH

Table S2. Synthesized oligonucleotides used in this study, Related to Figure 4, Figure S4 and S5

crRNAs, donor DNAs, and tracrRNA	
P1 S9-crRNA	5'-GAUGCUGCCGCAGCAAAAGC-3'
P1 S43-crRNA	5'-UACACCUUAUGGUGUAUGAG-3'
P1 S9A-donor	5'-GCCAGCTCCCGGCCAAGCCAGCACCATGGCCAGATACCGATGCTGCCGCgcaAAATCAAGGAGCAGATGCCGCCGTCGCAGGCGAAGATGTCGCAGACGGAGGAGGCGAT-3'
P1 S43A-donor	5'-TTTTGATGGACTTGCTATTCTGTGCATCTAGTATTTTTTACACCTTATGGTGTAagcGCGGCGGCGACGGCAGCATCCTAGAAAGGTAAGAAAAGTGGTGAGAGGGACTC-3'
tracrRNA	5'-AAACAGCAUAGCAAGUUAAAAUAAGGCUAGUCCGUUAUCAACUUGAAAAAGUGGCACCGAGUCGGUGCU-3'
Cy3 labeled sense oligonucleotides	
Sense-25nt	5'-/Cy3/GTGACACCAGGAAAACCACAATTCT-3'
Sense-50nt	5'-/Cy3/GCCCTTATTTGCACACTGGGAGGGCGTGACACCAGGAAAACCACAATTCT-3'
Sense-100nt	5'-/Cy3/TTAGGATAGAAGCACCAGGGGACCCCACGAACGGTGTCGTCGAAACAGCAGCCCTTATTTGCACACTGGGAGGGCGTGACACCAGGAAAACCACAATTCT-3'
Antisense oligonucleotides	
Antisense-25nt	5'-AGAATTGTGGTTTTCCTGGTGTCAC-3'
Antisense-50nt	5'-AGAATTGTGGTTTTCCTGGTGTCACGCCCTCCCAGTGTGCAAATAAGGGC-3'
Antisense-100nt	5'-AGAATTGTGGTTTTCCTGGTGTCACGCCCTCCCAGTGTGCAAATAAGGGCTGCTGTTTCGACGACACCGTTCGTGGGGTCCCCTGGTGCTTCTATCCTAA-3'