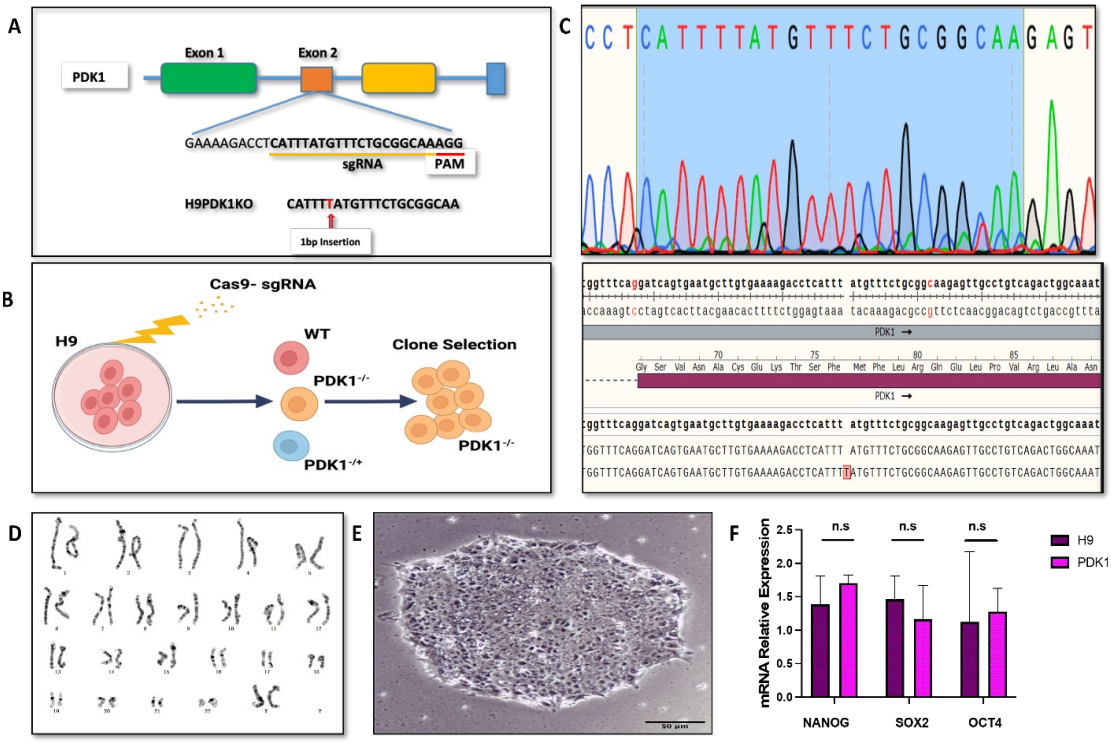
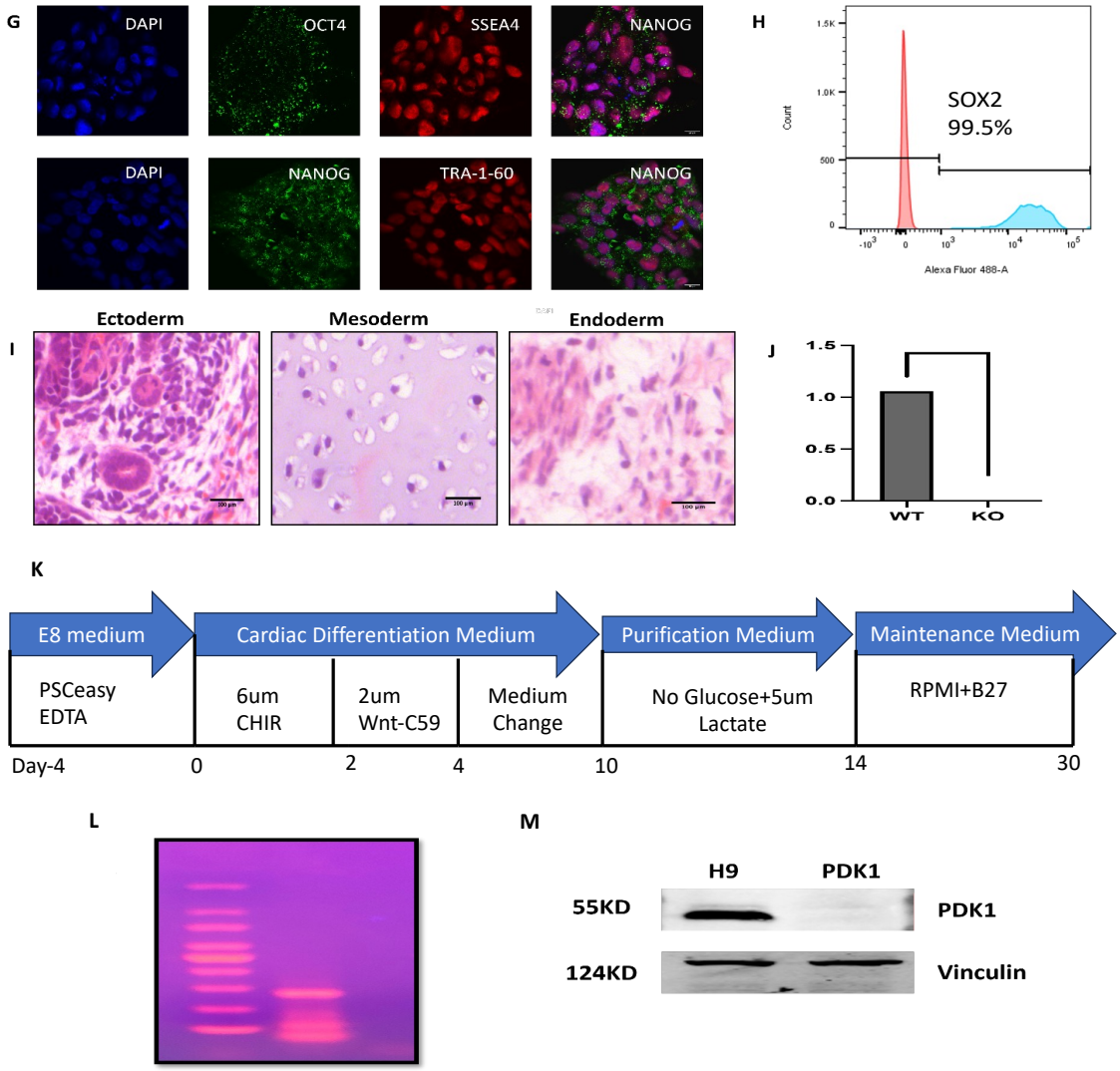

A
PDK1
Exon 1
Exon 2
GAAAAGACCTCATTTATGTTTCTGCGGCAAAGG
sgRNA
PAM
H9PDK1KO
CATTTTATGTTTCTGCGGCAA
1bp Insertion
B
Cas9- sgRNA
H9
WT
PDK1-/-
PDK1-/+
Clone Selection
PDK1-/-
C
D
E
50 µm
F
n.s
n.s
n.s
mRNA Relative Expression
2.5
2.0
1.5
1.0
0.5
0.0
NANOG
SOX2
OCT4
H9
PDK1


G
DAPI
OCT4
SSEA4
NANOG
DAPI
NANOG
TRA-1-60
NANOG
H
SOX2
99.5%
Count
Alexa Fluor 488-A
I
Ectoderm
Mesoderm
Endoderm
J
WT
KO
K
E8 medium
Cardiac Differentiation Medium
Purification Medium
Maintenance Medium
PSCeasy
EDTA
6um
CHIR
2um
Wnt-C59
Medium
Change
No Glucose+5um
Lactate
RPMI+B27
Day-4
0
2
4
10
14
30
L
M
H9
PDK1
55KD
PDK1
124KD
Vinculin