Mutation	Localisation	Effect	Presence	Reference
A123V *	PrM	Substantial effects on embryo development including increased rates of embryonic death and significant decrease in head diameter	No	Collette et al. 2020
S139N	PrM	Increases microcephaly severity in mice fetuses ; increases ZIKV infectivity in both human and mouse neural progenitor cells ; emerged precisely when GBS and CZVS where first associated with ZIKV infection	No	Yuan et al. 2017; Petterson et al.2016
A188V	NS1	Increases NS1 Secretion and enhances mosquito infectivity phenotype, allows NS1 to inhibit the induction of interferon-β	No	Xia et al. 2018 ; Rossi et al. 2018
T233A	NS1	Disrupts the central hydrogen bonding network at the NS1 dimer surface and destabilizes NS1 dimer assembly in vitro	No	Wang et al. 2017 ; Rossi et al. 2018
G894A	NS1	Increases viremia (RNA copies) in mice and significantly increases embryo death ; causes a significant decrease in head diameter (potential contribution to Congenital Zika Syndrome after birth)	No	Collette et al. 2020
A982V	NS1	Increases NS1 secretion and enhances virus transmission from mice to mosquitoes in both mouse–mosquito and a mosquito-mouse–mosquito transmission models	Yes	Liu et al.2019
M1404I	NS2B	Highly virulent, causes death in adult mice, abortions in pregnant females, and increases viral genome copies numbers in both brain tissue and blood of female mice	No	Collette et al. 2020
M2074L	NS3	Decreases embryo survival compared to epidemic strains	No	Collette et al. 2020
H2086Y*	NS3	Attenuated phenotype (in vitro and in vivo) as compared to epidemic strains	Yes	Collette et al. 2020
M2634V	NS5	Could have an impact on mosquito vector competence of epidemic ZIKV and increased ZIKV neurotropicity	No	Esser-Nobis et al. 2019 ; Mlakar et al. ; Liu et al. 2019

* reversion