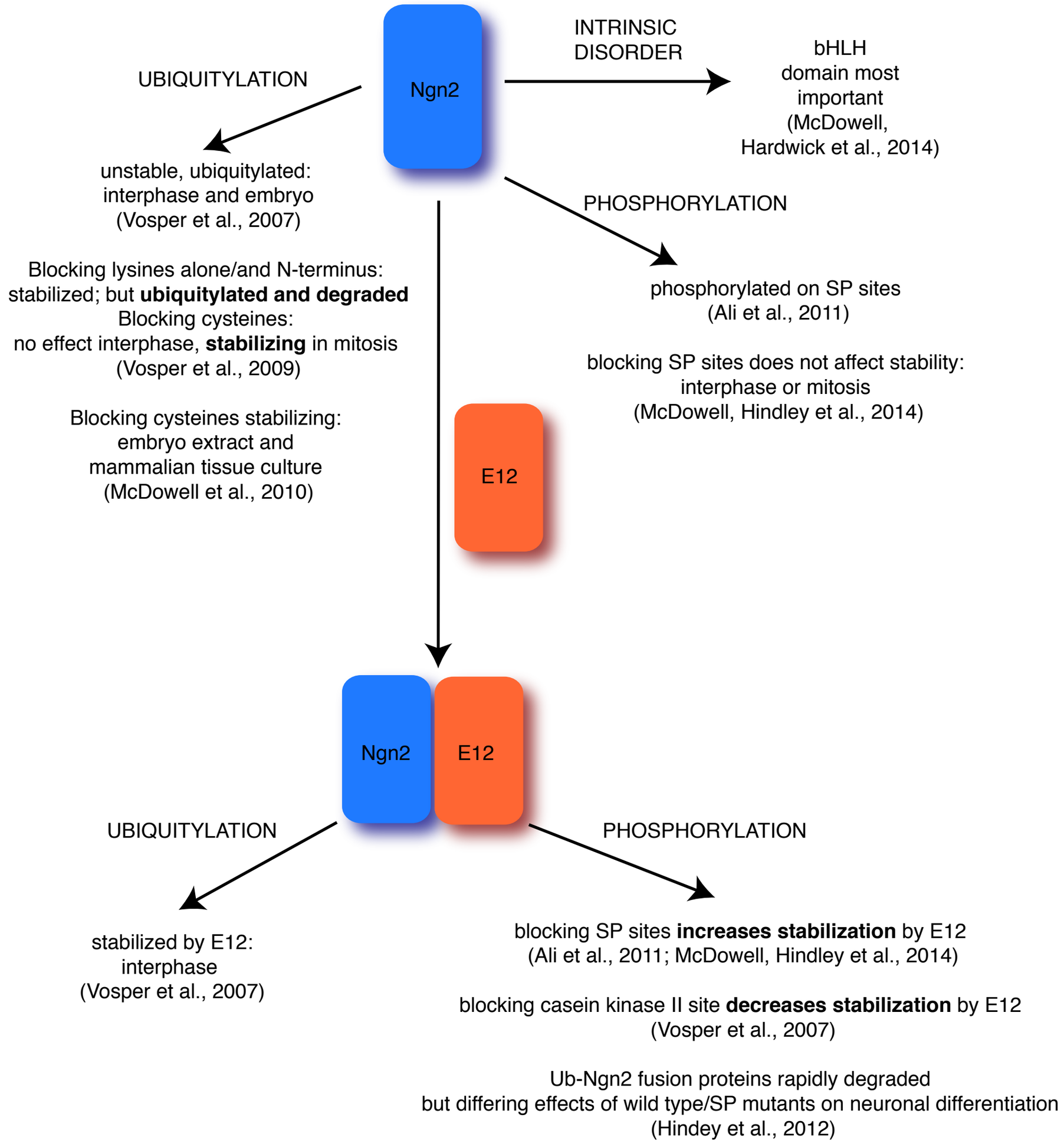
FIGURE 2


Ngn2
UBIQUITYLATION
unstable, ubiquitylated:
interphase and embryo
(Vosper et al., 2007)
Blocking lysines alone/and N-terminus:
stabilized; but **ubiquitylated and degraded**
Blocking cysteines:
no effect interphase, **stabilizing** in mitosis
(Vosper et al., 2009)
Blocking cysteines stabilizing:
embryo extract and
mammalian tissue culture
(McDowell et al., 2010)
INTRINSIC
DISORDER
bHLH
domain most
important
(McDowell,
Hardwick et al., 2014)
PHOSPHORYLATION
phosphorylated on SP sites
(Ali et al., 2011)
blocking SP sites does not affect stability:
interphase or mitosis
(McDowell, Hindley et al., 2014)
E12
Ngn2
E12
UBIQUITYLATION
stabilized by E12:
interphase
(Vosper et al., 2007)
PHOSPHORYLATION
blocking SP sites **increases stabilization** by E12
(Ali et al., 2011; McDowell, Hindley et al., 2014)
blocking casein kinase II site **decreases stabilization** by E12
(Vosper et al., 2007)
Ub-Ngn2 fusion proteins rapidly degraded
but differing effects of wild type/SP mutants on neuronal differentiation
(Hindey et al., 2012)