

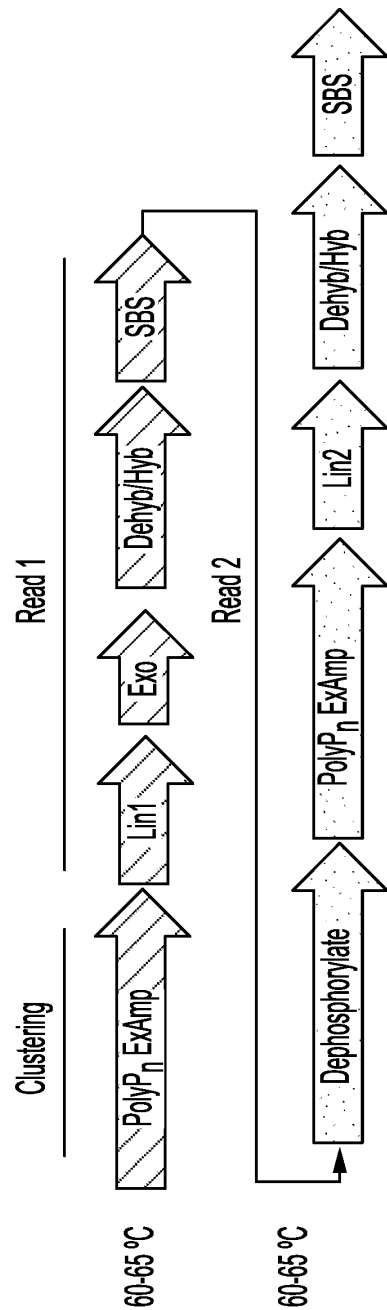


FIG. 1A

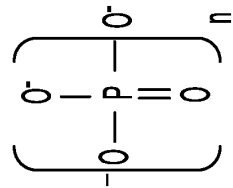


FIG. 1B

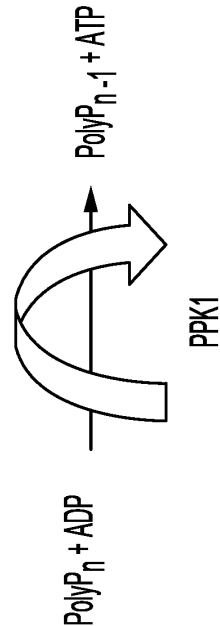


FIG. 1C

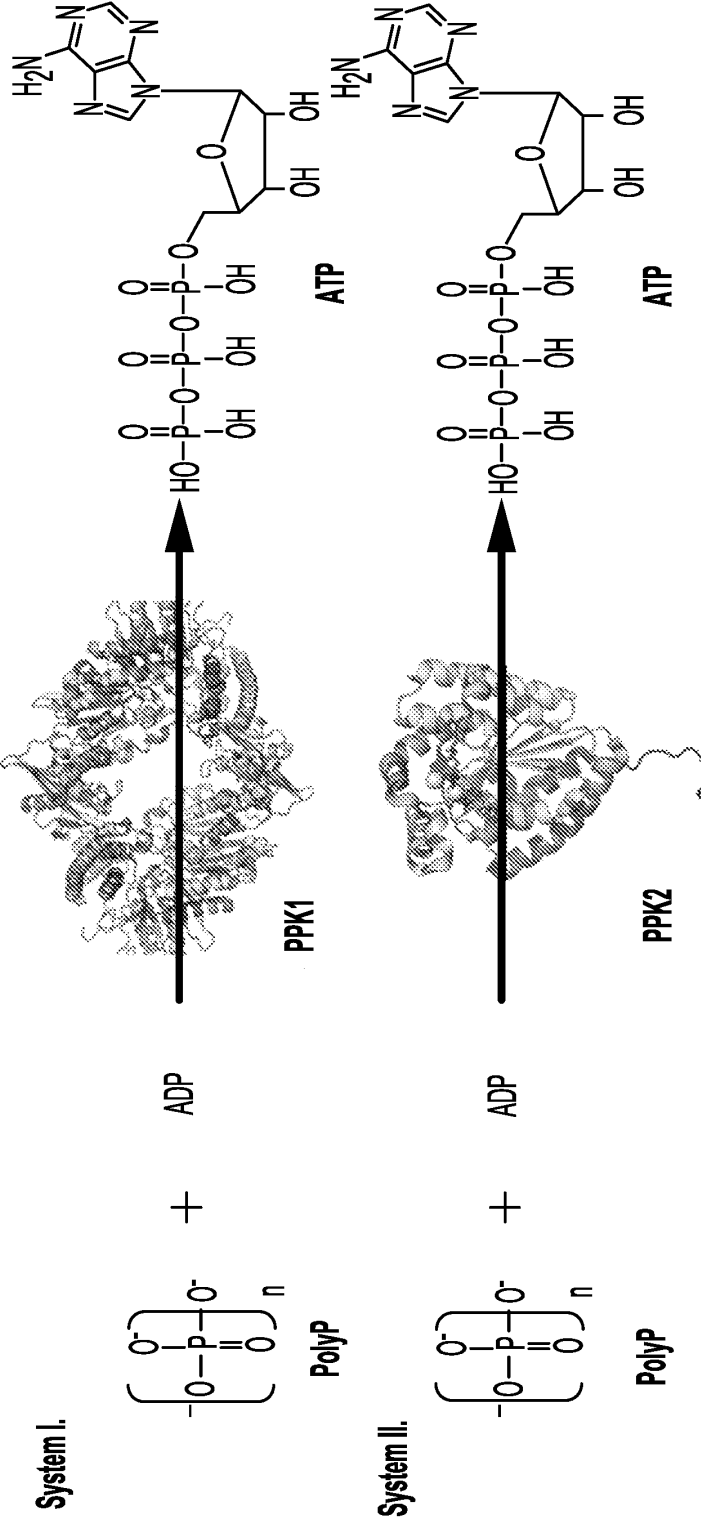


FIG. 2

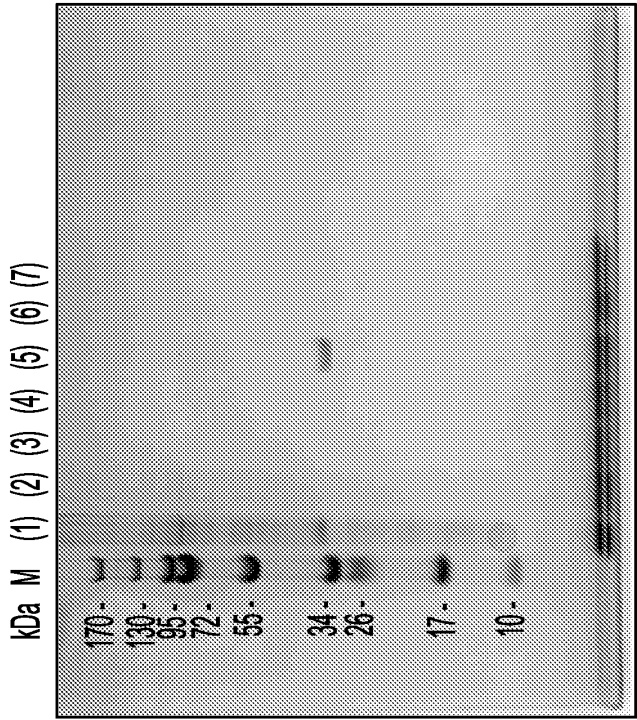


FIG. 3B

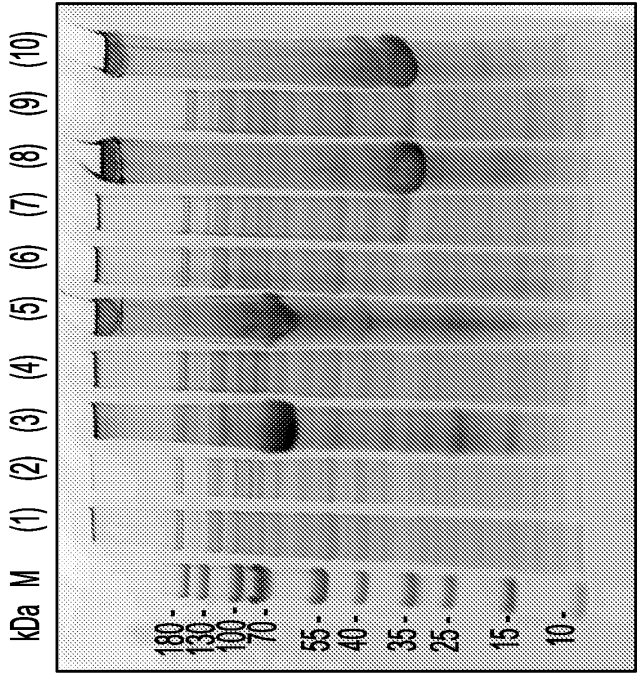


FIG. 3A

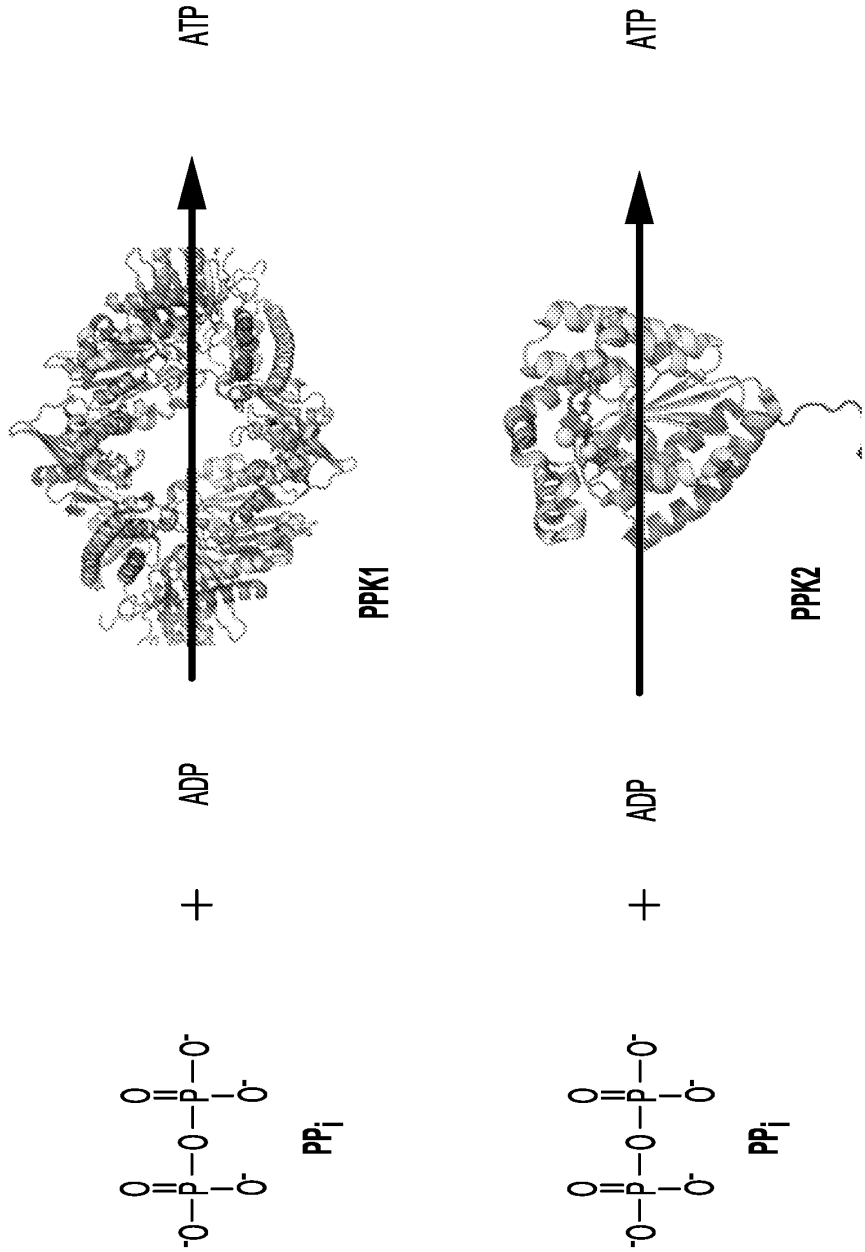


FIG. 4

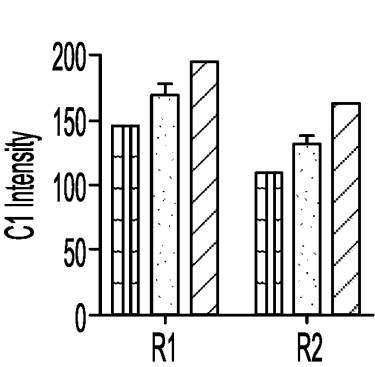


FIG. 5A

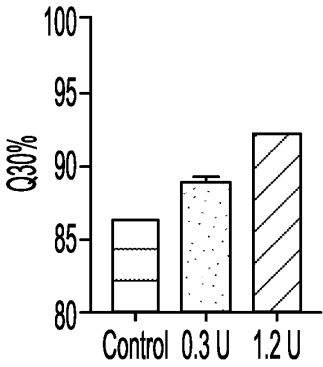


FIG. 5B

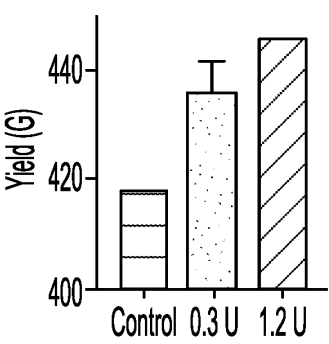


FIG. 5C

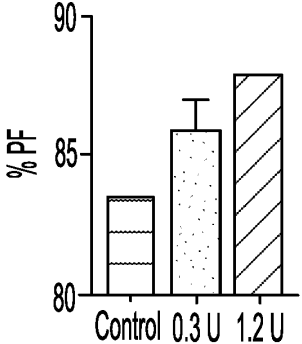


FIG. 5D

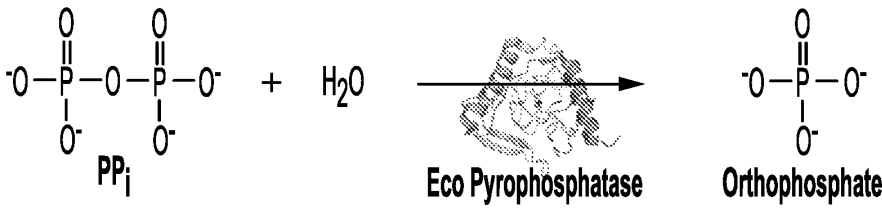


FIG. 5E

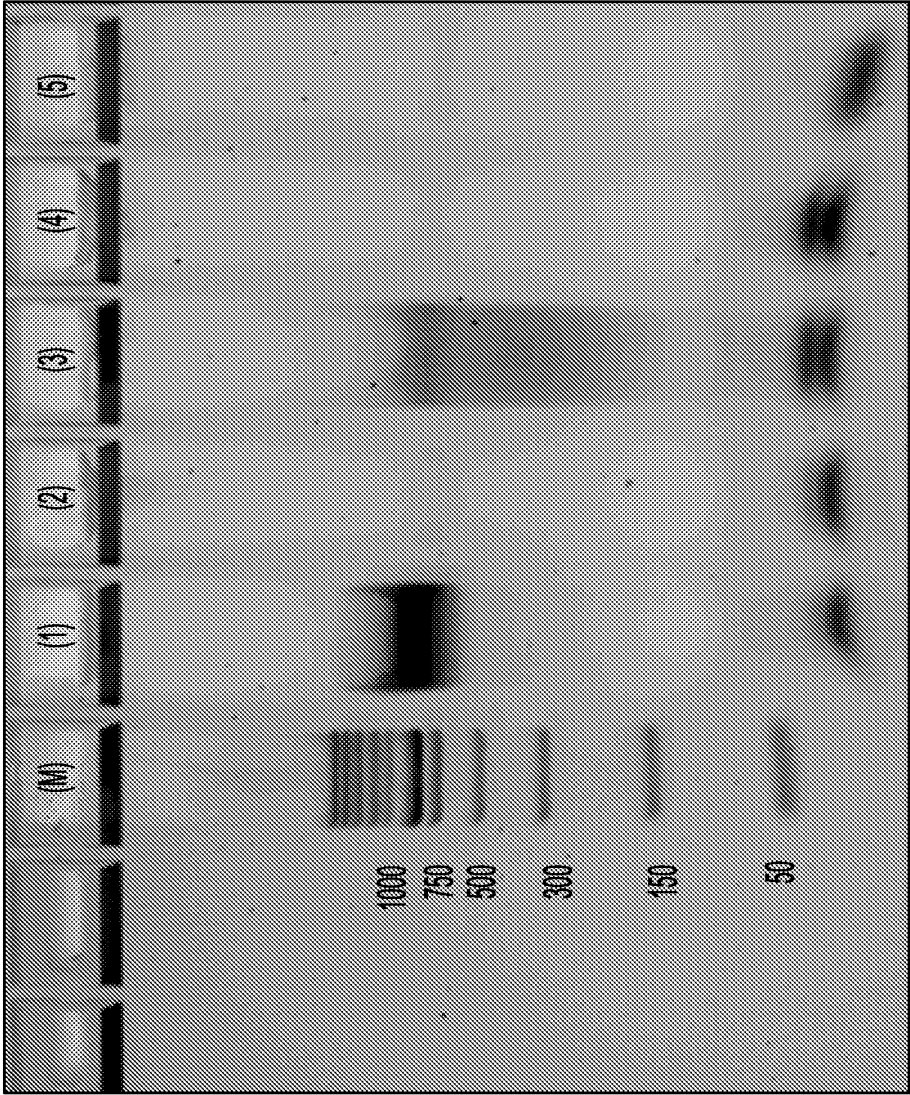


FIG. 6

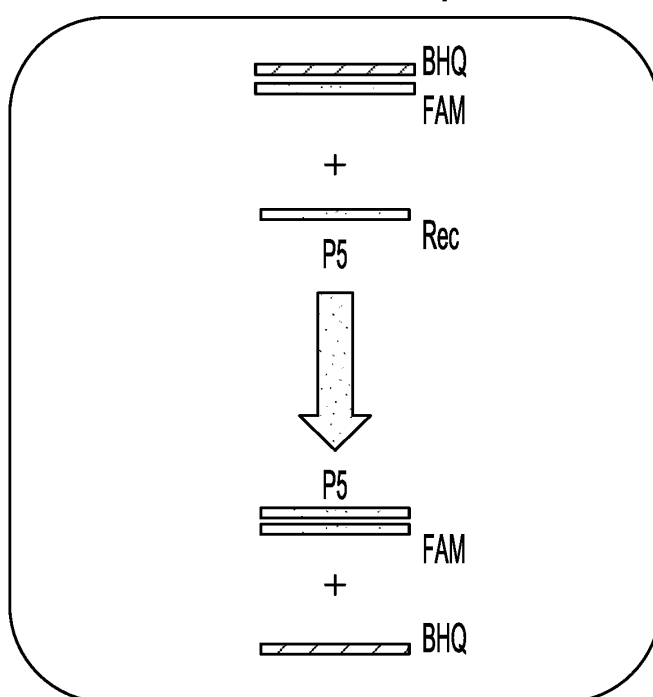
Strand Invasion Assay

FIG. 7

Consensus

► RB32 UvsX

► UvsX HQ

► UvsX 6His

Consensus

► RB32 UvsX

► UvsX HQ

► UvsX 6His

Consensus

► RB32 UvsX

► UvsX HQ

► UvsX 6His

-----MSIADLKSRLLKASTSKMTAELTTSKFFNEKDVIRTKIPMLNIAISGAIDGGMQSGLTIF
MCSHHHHHSSCLVPRGSHMSIADLKSRLLKASTSKMTAELTTSKFFNEKDVIRTKIPMLNIAISGAIDGGMQSGLTIF 80
-----MSIADLKSRLLKASTSKMTAELTTSKFFNEKDVIRTKIPMLNIAISGAIDGGMQSGLTIF 60
-----MSIADLKSRLLKASTSKMTAELTTSKFFNEKDVIRTKIPMLNIAISGAIDGGMQSGLTIF 60

*****AGPSKSFKSNMSLTMVAAYLNKYPDAVCLFYDSEFGITPAYLRSMGVDPERVIIHTPIQSVEQLKIDMVNQLEAIERGEKV 160
AGPSKHFKSNMSLTMVAAYLNKYPDAVCLFYDSEFGITPAYLRSMGVDPERVIIHTPIQSVEQLKIDMVNQLEAIERGEKV 160
AGPSKSFKSNMSLTMVAAYLNKYPDAVCLFYDSEFGITPAYLRSMGVDPERVIIHTPIQSVEQLKIDMVNQLEAIERGEKV 140
AGPSKSFKSNMSLTMVAAYLNKYPDAVCLFYDSEFGITPAYLRSMGVDPERVIIHTPIQSVEQLKIDMVNQLEAIERGEKV 140

*****IVFIDSIGNMASKKETEDALNEKSVADMTRAKSLKSLFRIVTPYFSIKNIPCVAVNHTTETIEMFSKTVMTGGTGMYS 240
IVFIDSIGNMASKKETEDALNEKSVADMTRAKSLKSLFRIVTPYFSIKNIPCVAVNHTTETIEMFSKTVMTGGTGMYS 240
IVFIDSIGNMASKKETEDALNEKSVADMTRAKSLKSLFRIVTPYFSIKNIPCVAVNHTTETIEMFSKTVMTGGTGMYS 220
IVFIDSIGNMASKKETEDALNEKSVADMTRAKSLKSLFRIVTPYFSIKNIPCVAVNHTTETIEMFSKTVMTGGTGMYS 220

To FIG. 8A-2

FIG. 8A

From 8A-1

Consensus

- RB32 UvsX
- UvsX HQ
- UvsX 6His

DTVFIIGKRQIKDGSLOGYQFVLNVEKSTVKEKSKFFIDVKFDGGIDPYSGLLDMALELGFVVKPKNGWYAREGLDEE
DTVFIIGKRQIKDGSLOGYQFVLNVEKSTVKEKSKFFIDVKFDGGIDPYSGLLDMALELGFVVKPKNGWYAREFLDEE
DTVFIIGKRQIKDGSLOGYQFVLNVEKSTVKEKSKFFIDVKFDGGIDPYSGLLDMALELGFVVKPKNGWYAREFLDEE
DTVFIIGKRQIKDGSLOGYQFVLNVEKSTVKEKSKFFIDVKFDGGIDPYSGLLDMALELGFVVKPKNGWYAREFLDEE

Consensus

- RB32 UvsX
- UvsX HQ
- UvsX 6His

TCEMIREEKSWRAKDTNCTTFWGPLEFKHQPRDAIKRAYQLGAIDSNIEIVAEVDELINSKVEKFKSPESKSKSAADLET
TCEMIREEKSWRAKDTNCTTFWGPLEFKHQPRDAIKRAYQLGAIDSNIEIVAEVDELINSKVEKFKSPESKSKSAADLET
TCEMIREEKSWRAKDTNCTTFWGPLEFKHQPRDAIKRAYQLGAIDSNIEIVAEVDELINSKVEKFKSPESKSKSAADLET
TCEMIREEKSWRAKDTNCTTFWGPLEFKHQPRDAIKRAYQLGAIDSNIEIVAEVDELINSKVEKFKSPESKSKSAADLET

Consensus

- RB32 UvsX
- UvsX HQ
- UvsX 6His

***** *.*.*
DLEQLSDMEEFNEGHHHHH (SEQ ID NO: 12)
DLEQLSDMEEFNEGHHHHH 420 (SEQ ID NO: 8)
DLEQLSDMEEFNEHHQH 398 (SEQ ID NO: 10)
DLEQLSDMEEFNEGHHHHH 400 (SEQ ID NO: 12)

FIG. 8A (cont.)

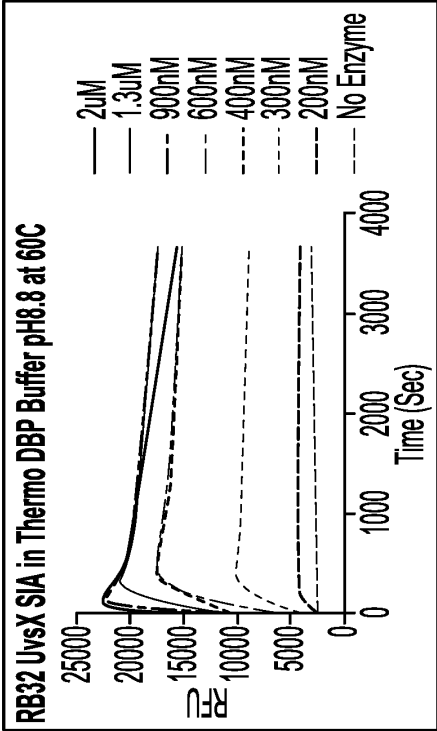


FIG. 8C

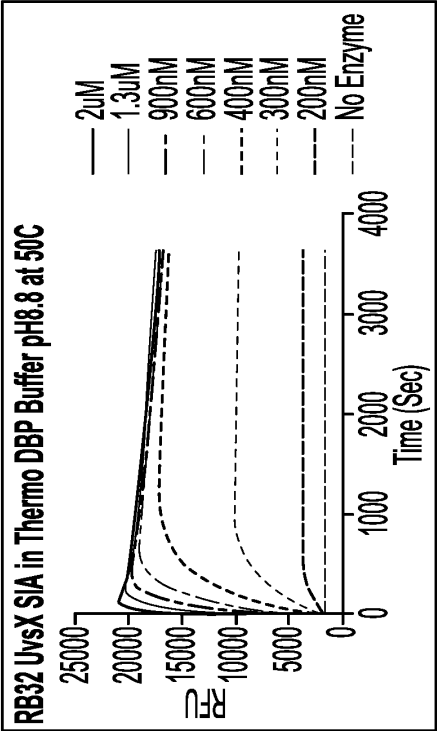


FIG. 8B

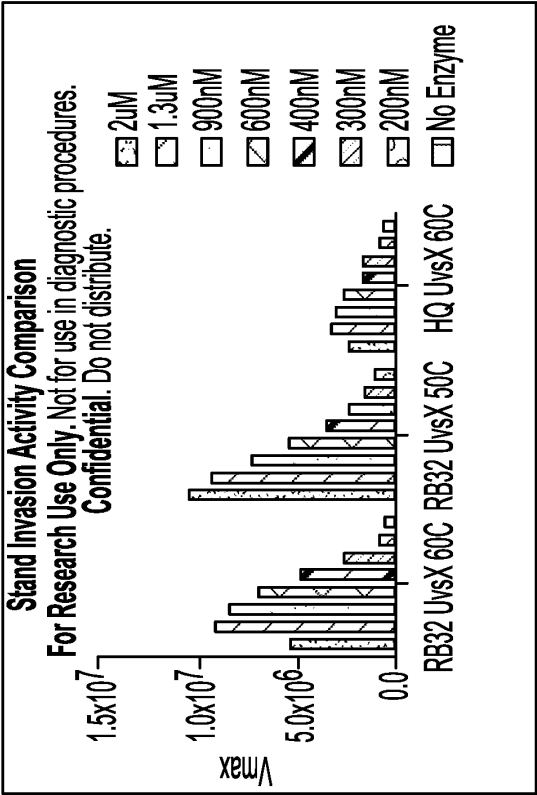


FIG. 8D