

Fig. 1Ai



Fig. 1Aii

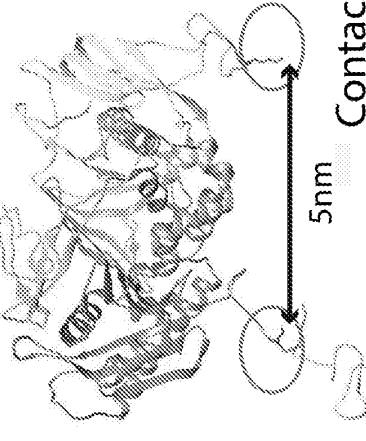
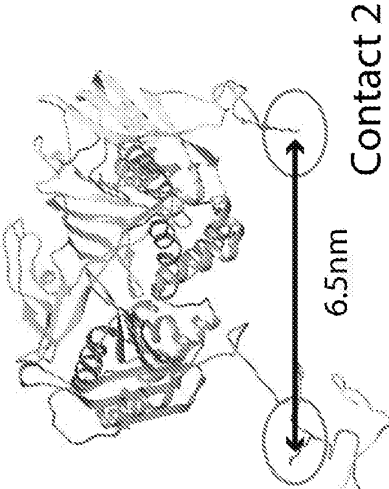


Fig. 1Aiii



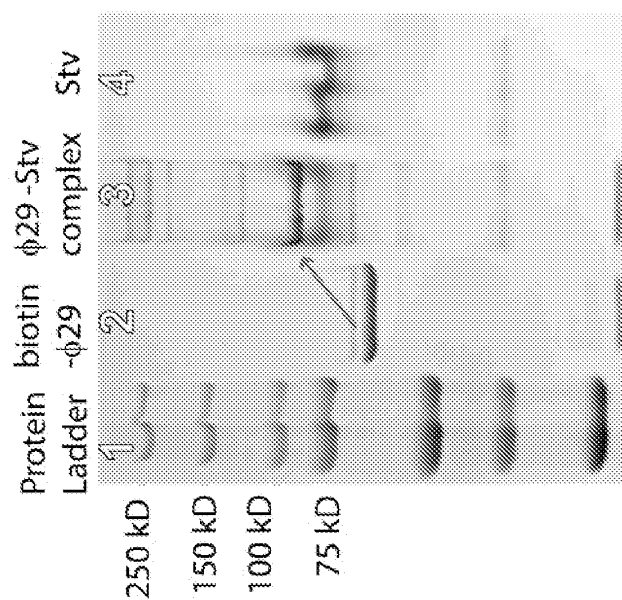
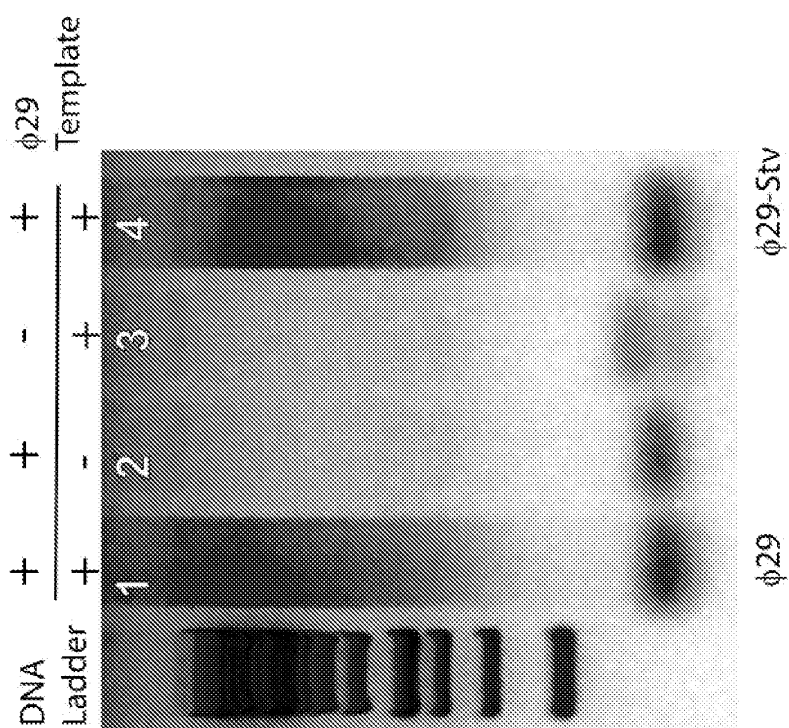
N Contact 1

N Contact 1

N Contact 2

Contact 2

N Contact 1:MGSSHHHHHHSSGLVPRGSLNDIFEFAQKIEWHEGASS SEQ ID NO: 1
N Contact 2:MGSSHHHHHHSSGLVPRGSLNDIFEFAQKIEWHEGASSGNSTNGTSNGSS SEQ ID NO: 2
Contact 2: (E279)SSGLNDIFEFAQKIEWHEGASS(D280) SEQ ID NO: 3



5'CCCCCCCCC AACTGGCCG TCGTTTTACA TATGTAAC GACGGCCAGT T3' SEQ ID NO: 6
└┐ACATTTTGGTGGCGGTACCCCCCCCC 5' SEQ ID NO: 7
└┐
ATGTAACGACGGCCAGTT SEQ ID NO: 8

5'AAAAAAAAA AACTGGCCG TCGTTTTACA TATGTAAC GACGGCCAGT T3' SEQ ID NO: 9
└┐ACATTTTGGTGGCGGTAAAAAAAAA 5' SEQ ID NO: 10
└┐
ATGTAACGACGGCCAGTT SEQ ID NO: 8

5'CCCCCCCCC AAAAAAAAAA AACTGGCCG TCGTTTTACA TATGTAAC GACGGCCAGT T3' SEQ ID NO: 11
└┐ACATTTTGGTGGCGGTAAAAAAAAA 5' SEQ ID NO: 12
└┐
ATGTAACGACGGCCAGTT SEQ ID NO: 8

5'ATC ATC ATC ATC AACTGGCCG TCGTTTTACA TATGTAAC GACGGCCAGT T3' SEQ ID NO: 13
└┐ACATTTTGGTGGCGGTCACTACTACTA 5' SEQ ID NO: 14
└┐
ATGTAACGACGGCCAGTT SEQ ID NO: 8

Fig. 2

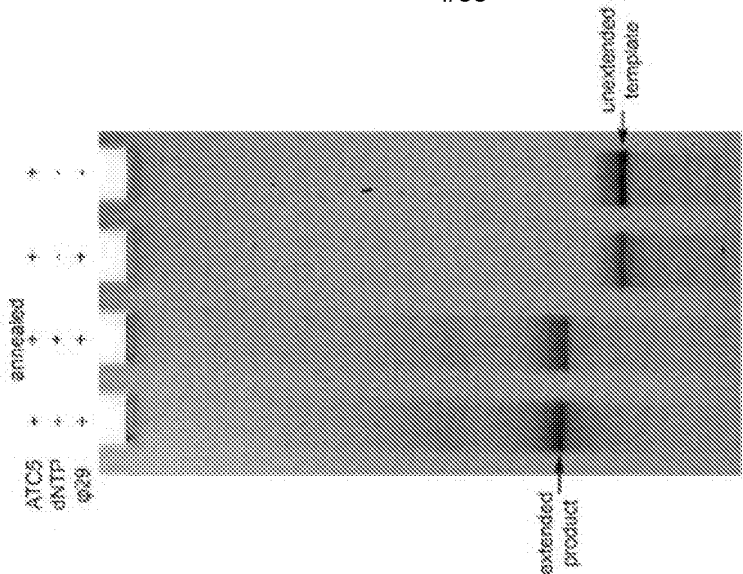


Fig. 3B

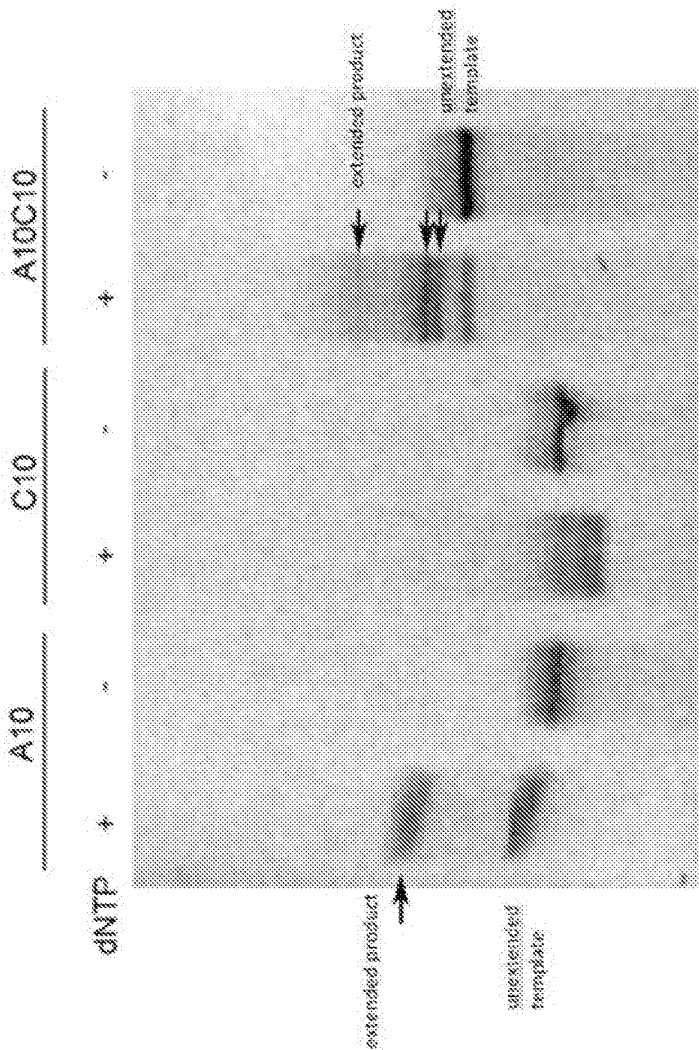


Fig. 3A

TACATTTCGTCGGTCAATGCCAT TAC (TAC) 3' TAAGGGCATCATC 5' SEQ ID NO: 15

ATGTAAACGAAGGCCAGTTACCGTA --- (ATG) 3' ATTCGCGGTAGTAG 3' SEQ ID NO: 16

(Bold font is a primer, the primers only containing ATG of 9, 8 and 7 which would make the nick sizes of 3bp, 6bp and 9bp, respectively.) These are the sequences of three primers:

CAT-tail primers:

5' - ATGATGATGATGATGATGATGATGATGATGATTCGCGGTAGTAG -3' (ATG) 9

5' - ATGATGATGATGATGATGATGATGATGATTCGCGGTAGTAG -3' (ATG) 8

5' - ATGATGATGATGATGATGATGATGATGATTCGCGGTAGTAG -3' (ATG) 7

SEQ ID NO: 17

SEQ ID NO: 18

Fig. 4



Fig. 5A

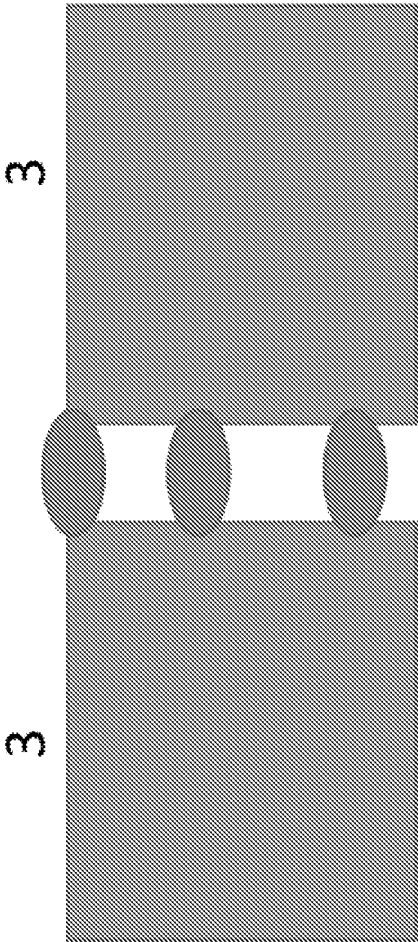
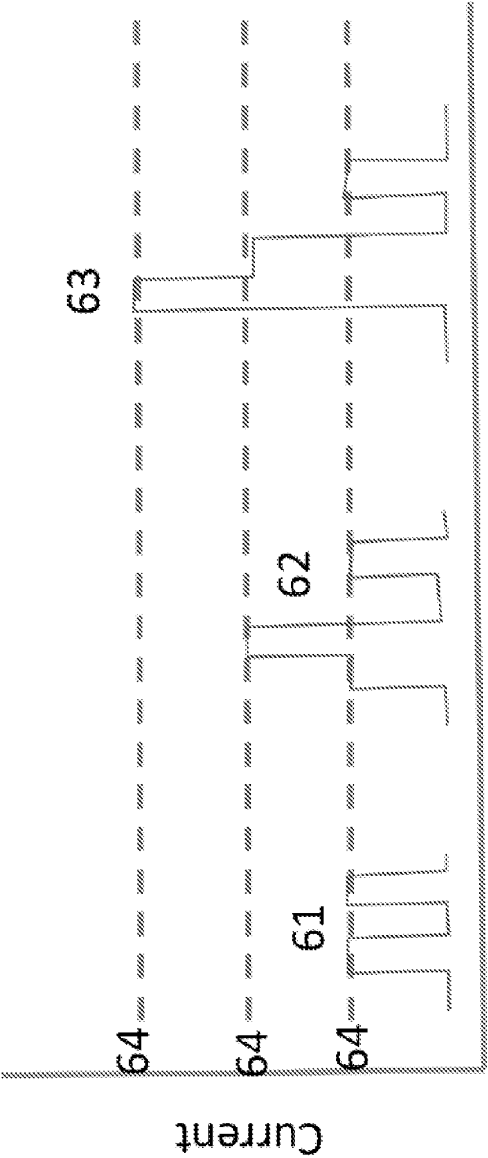


Fig. 5B



Time

Fig. 6

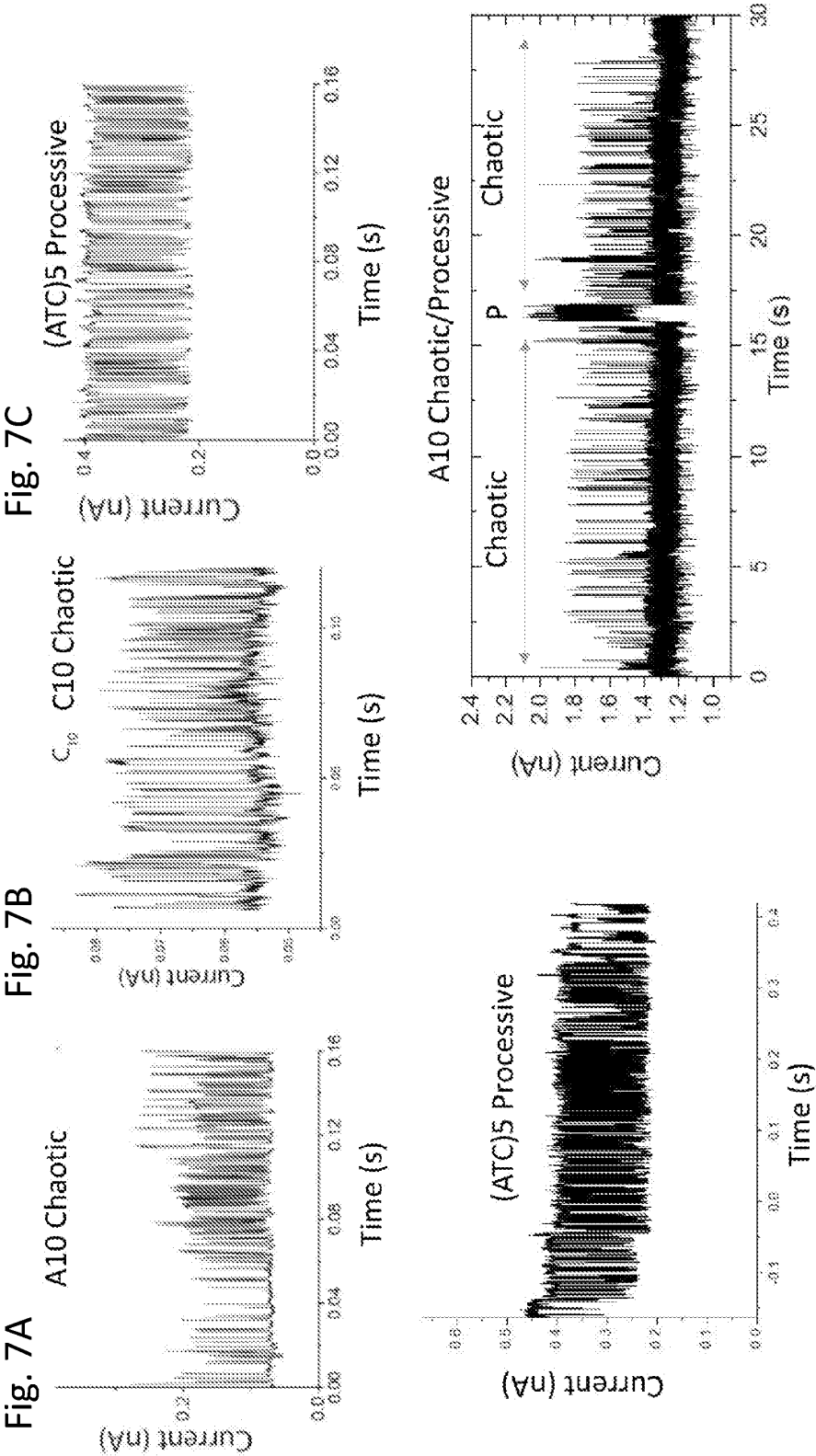
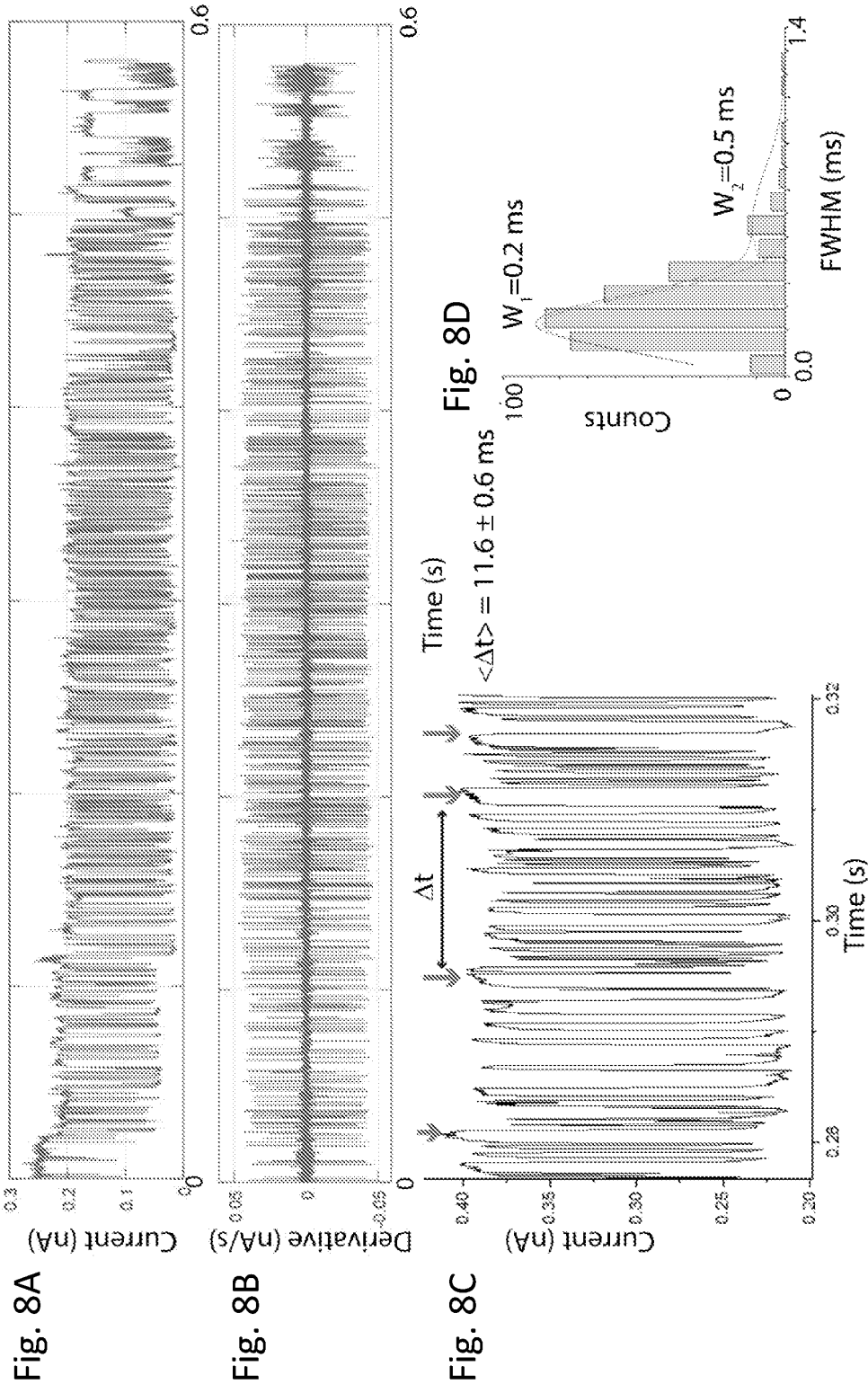


Fig. 7E

Fig. 7D



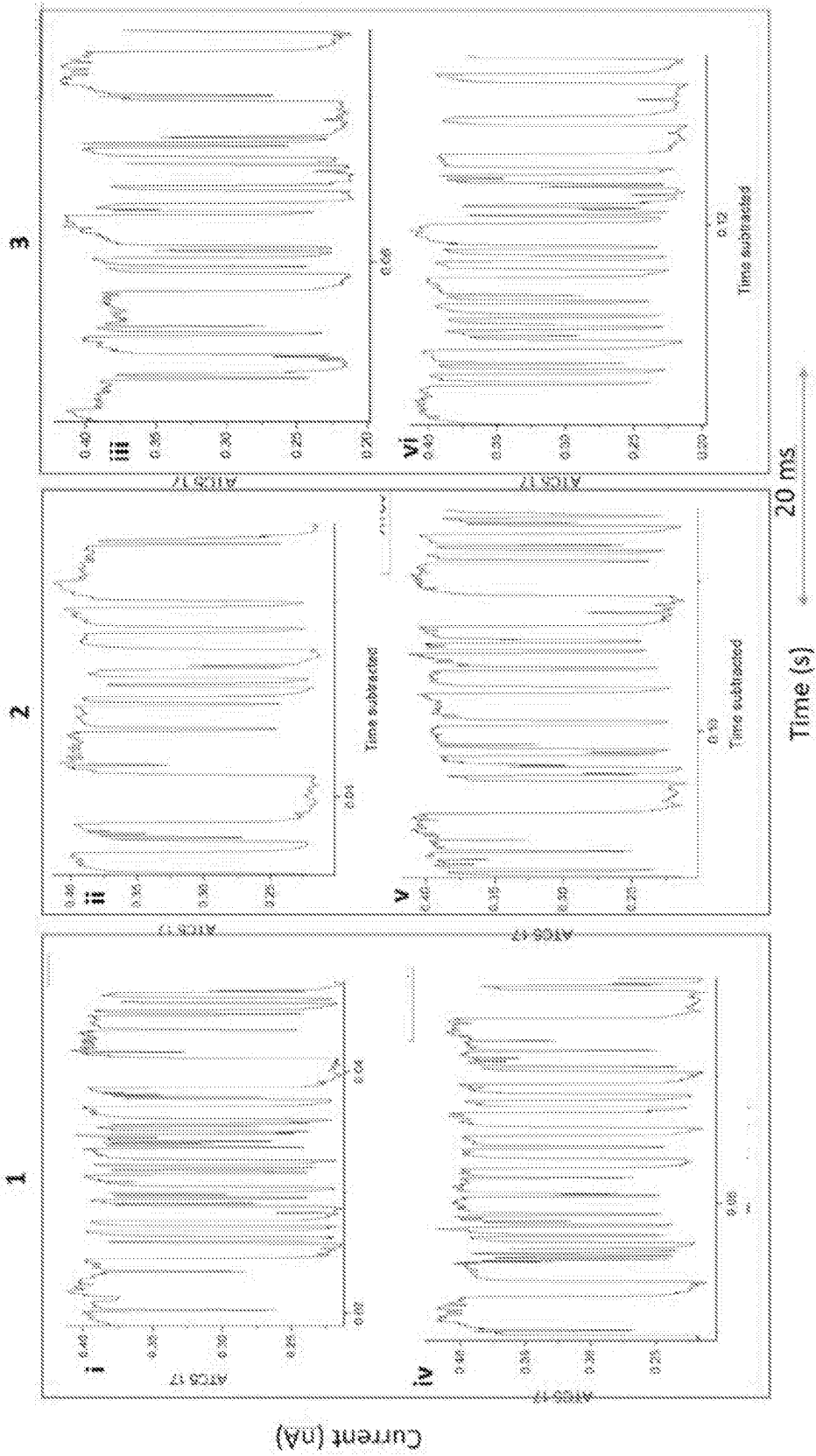
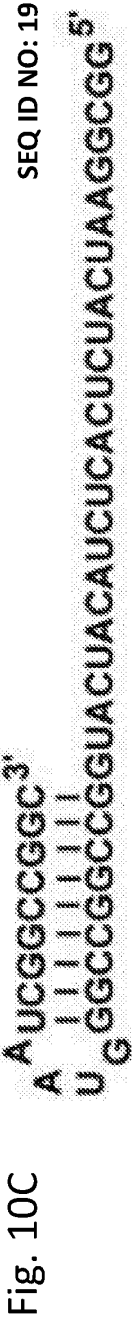
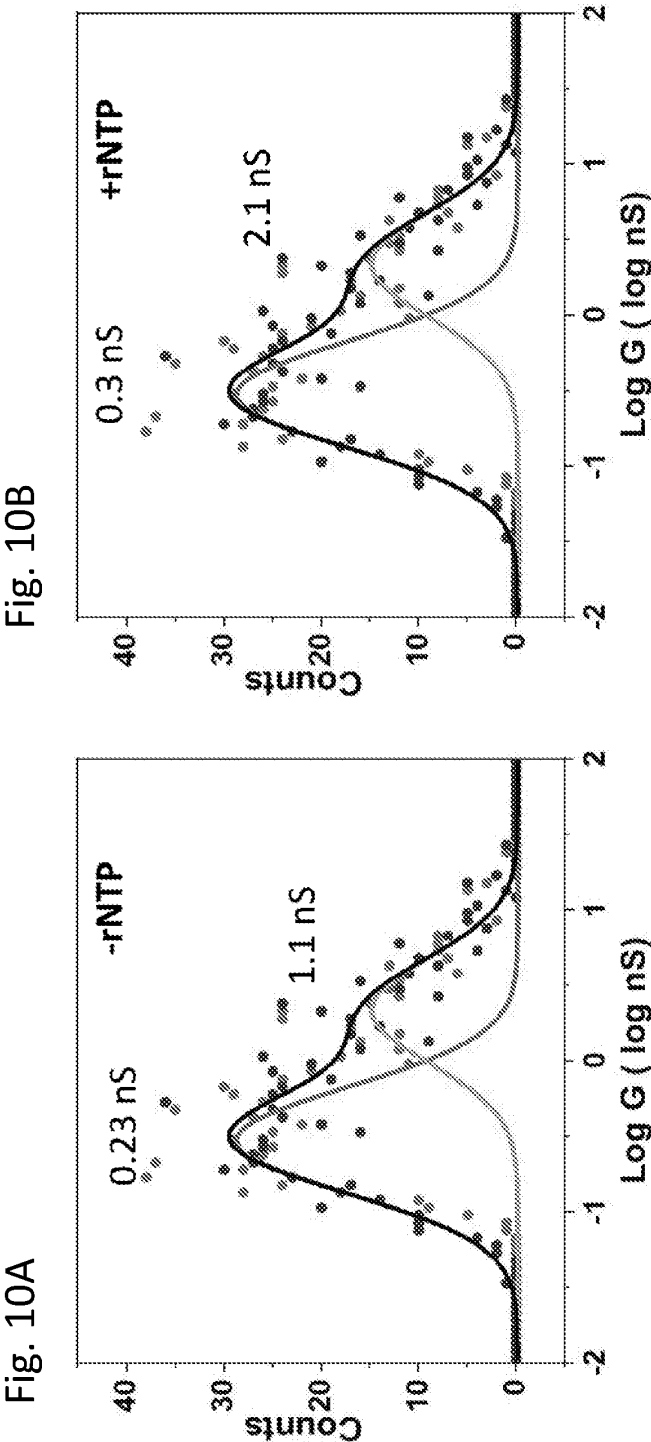


Fig. 9



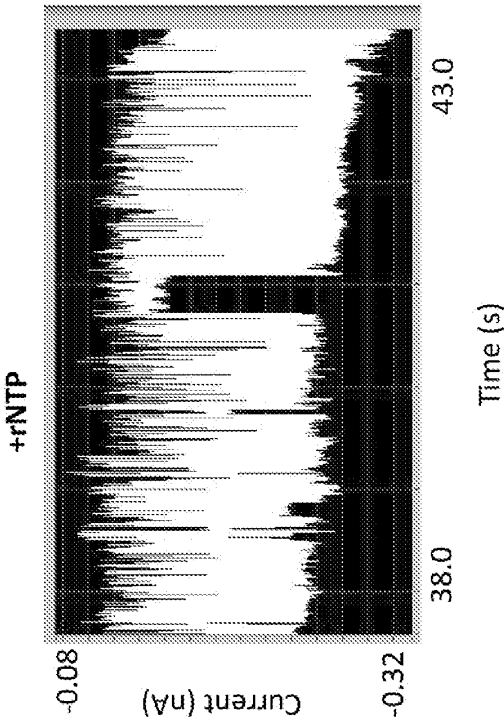


Fig. 11B

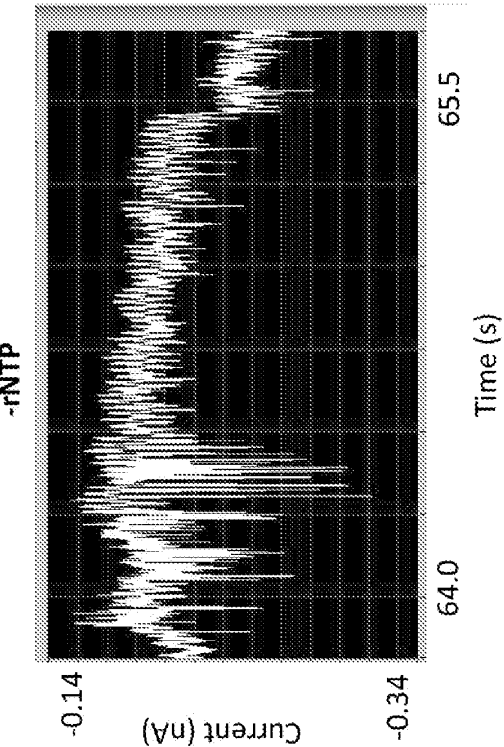


Fig. 11A

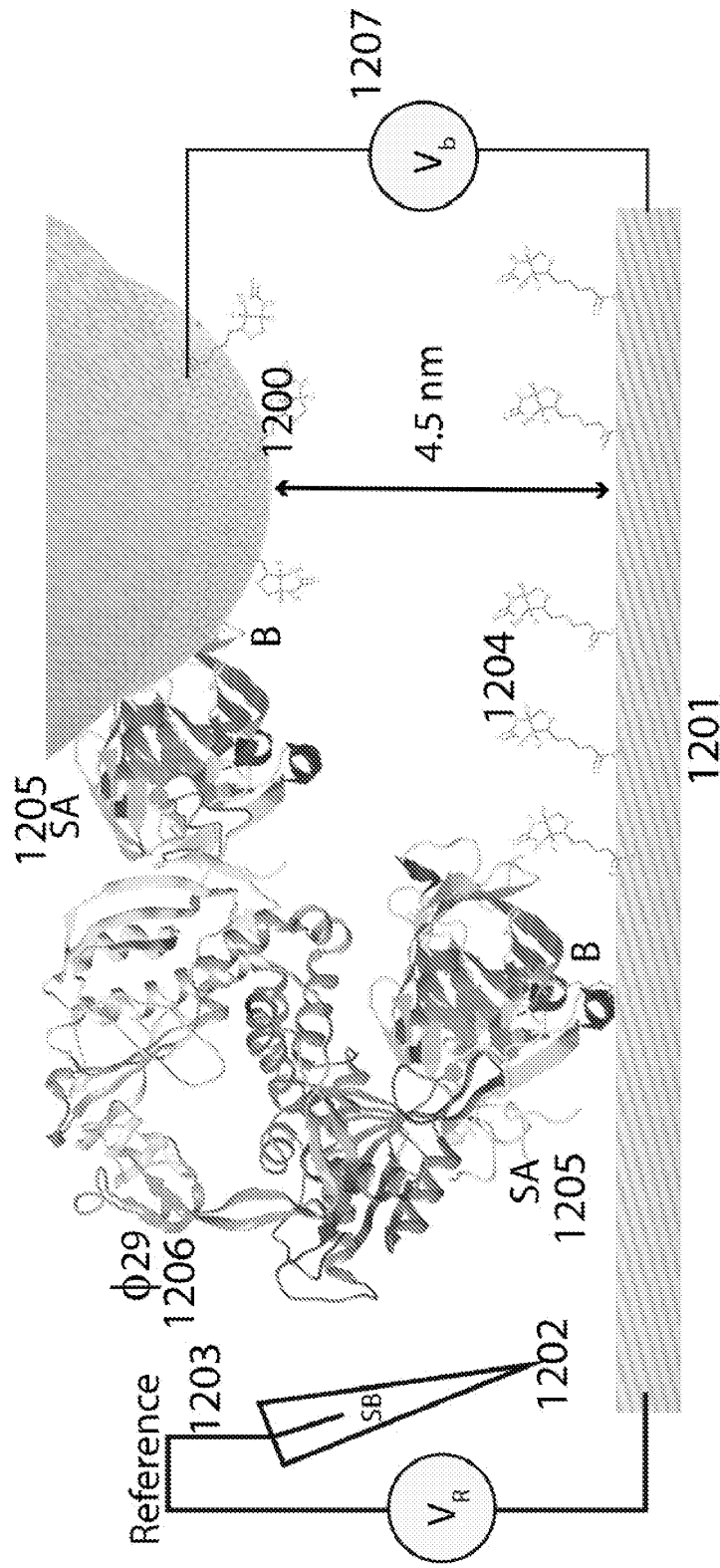


Fig. 12

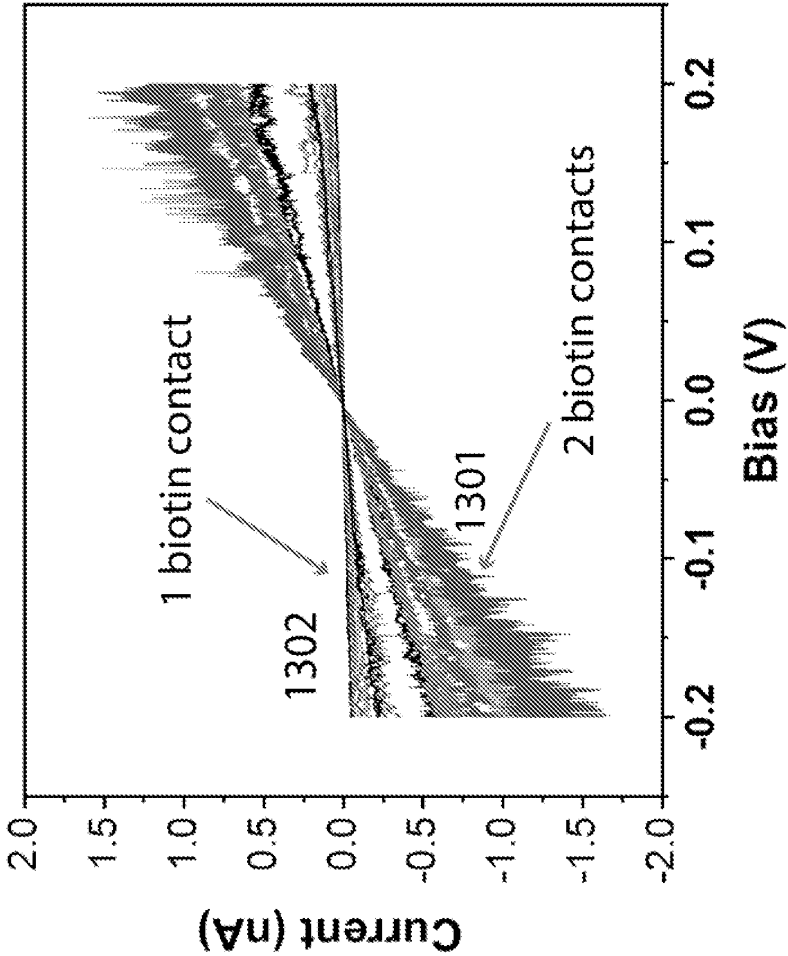


Fig. 13

Fig. 14B

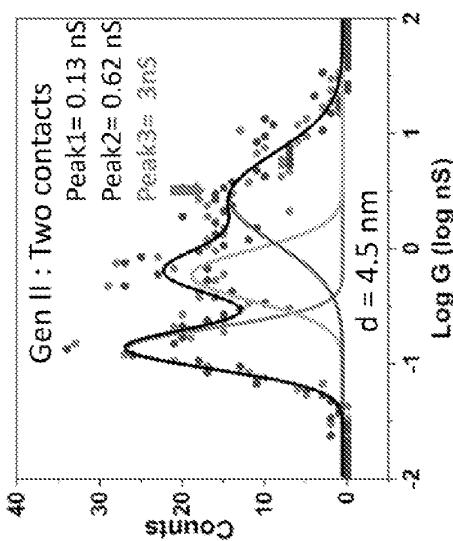


Fig. 14D

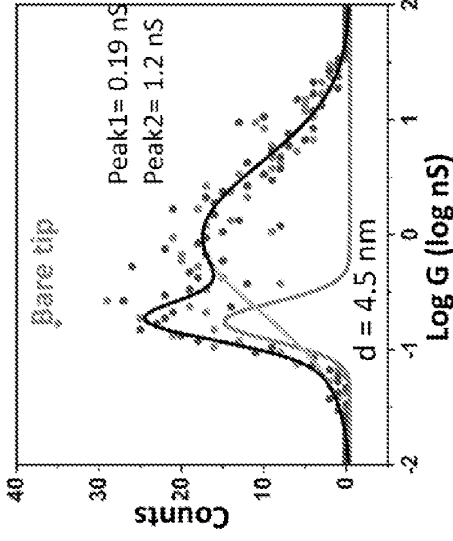


Fig. 14A

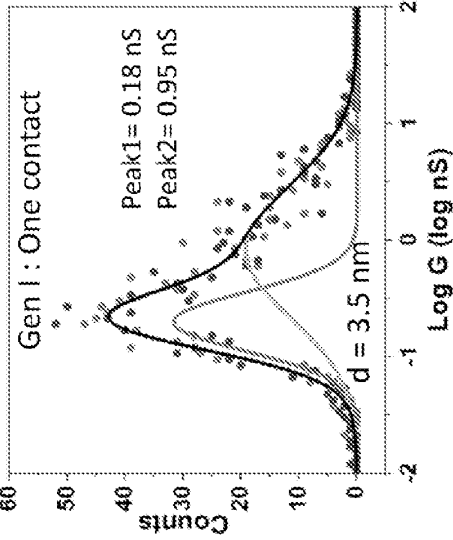
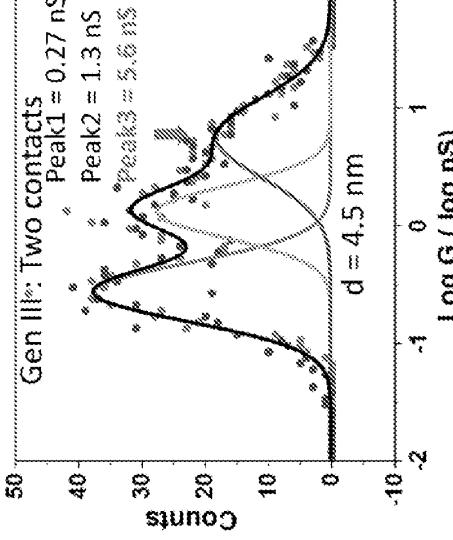


Fig. 14C



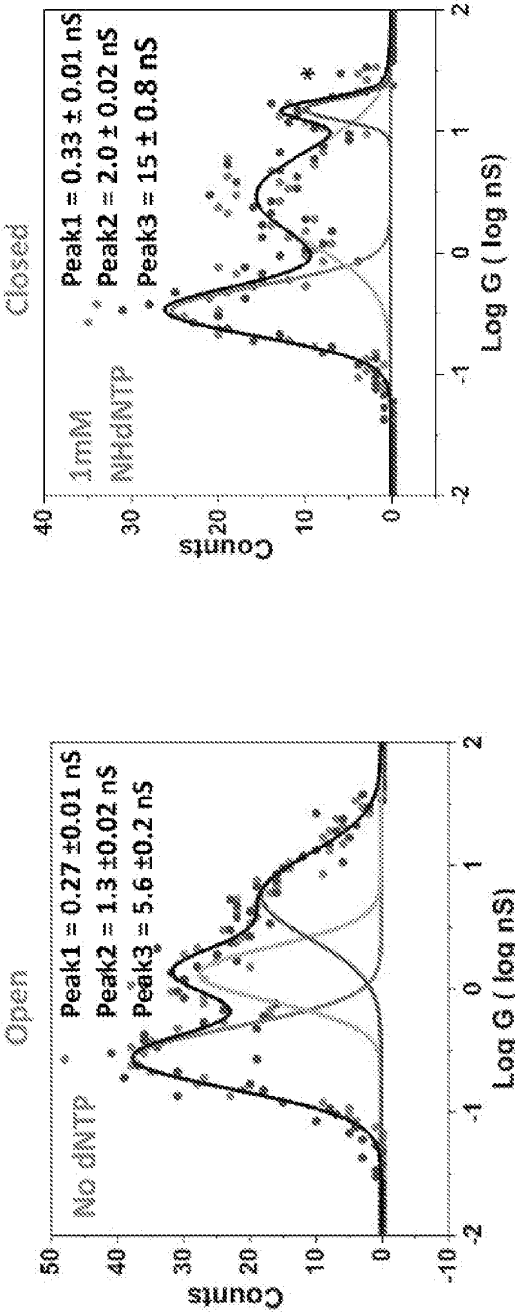


Fig. 15A

Fig. 15B

Fig. 16E

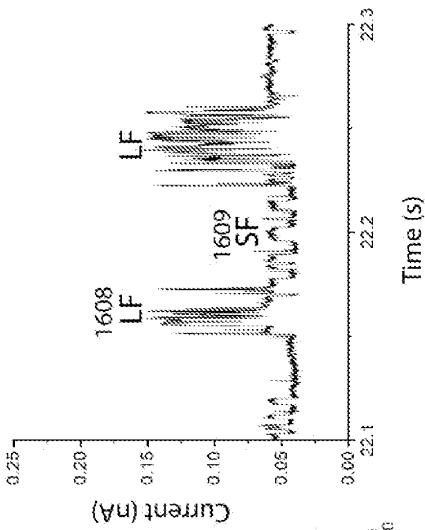


Fig. 16C

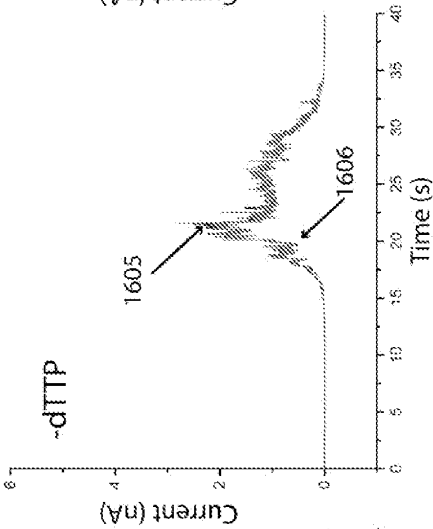


Fig. 16A

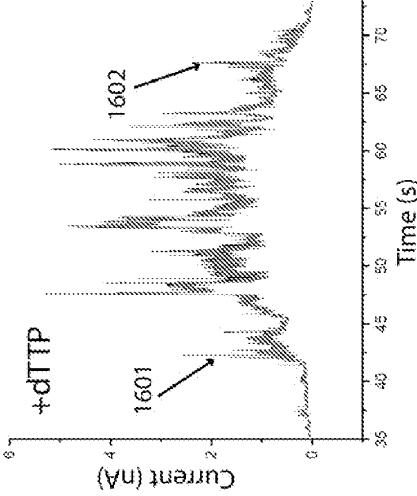


Fig. 16F

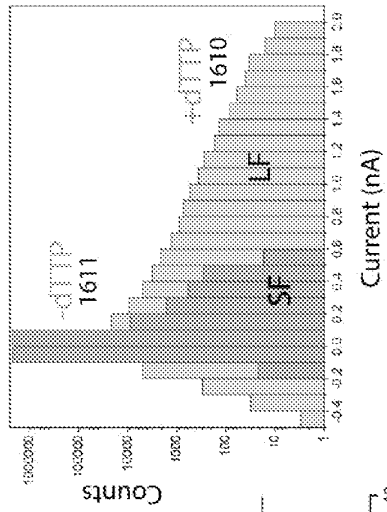


Fig. 16D

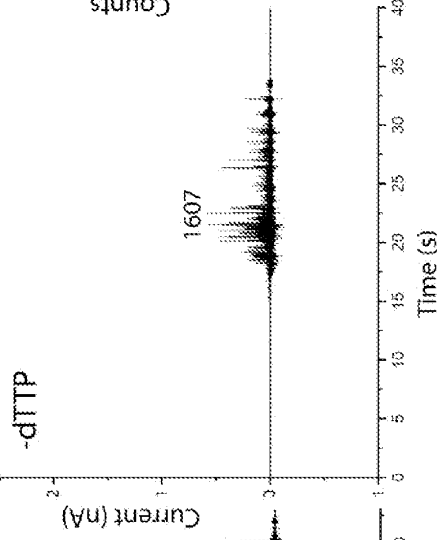


Fig. 16B

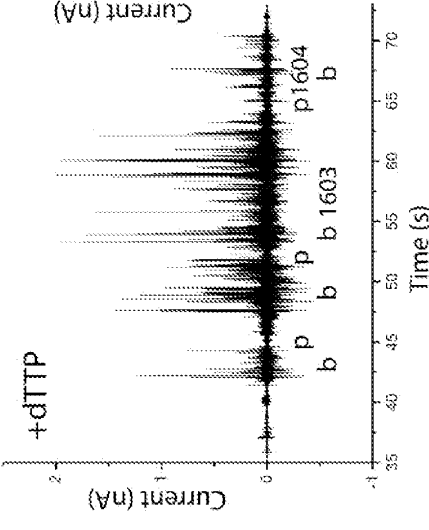


Fig. 17A

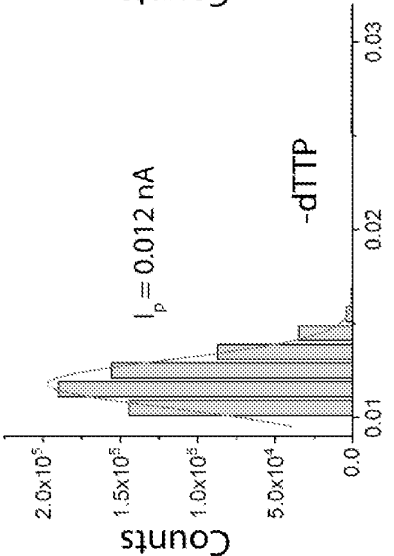


Fig. 17B

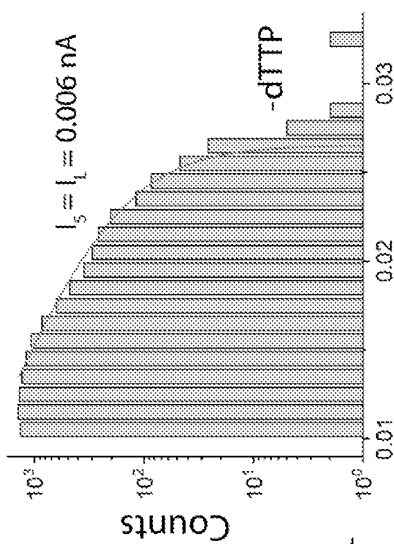


Fig. 17C

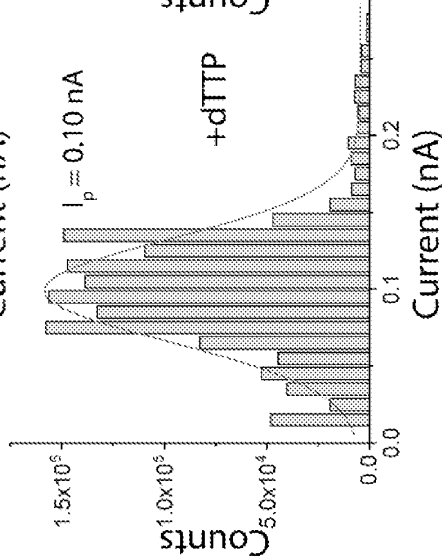
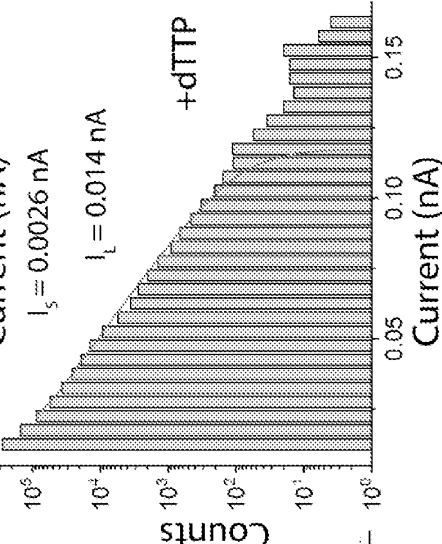


Fig. 17D



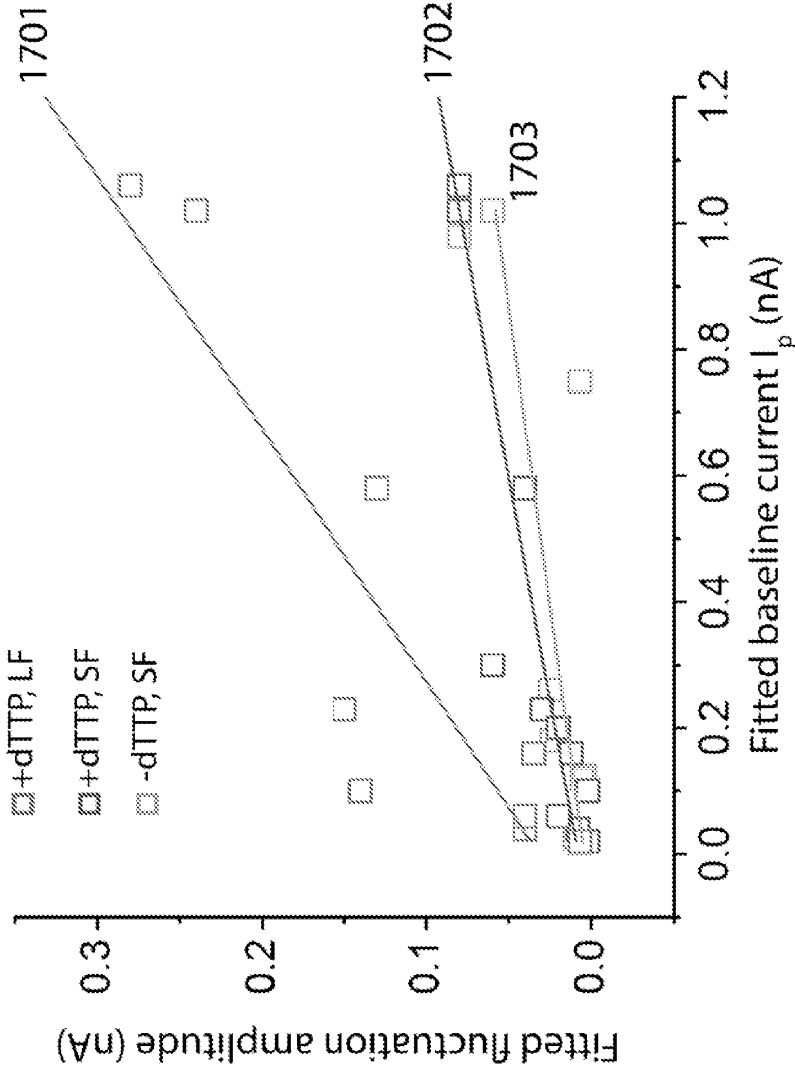


Fig. 17E

Fig. 18A

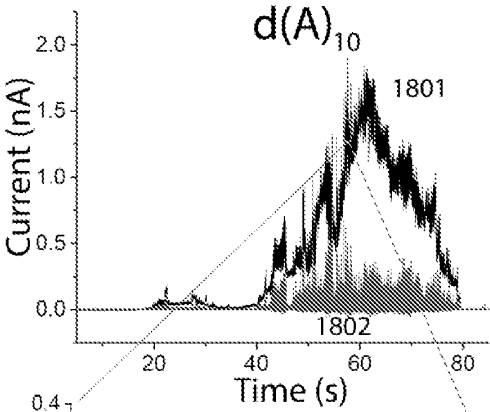


Fig. 18B

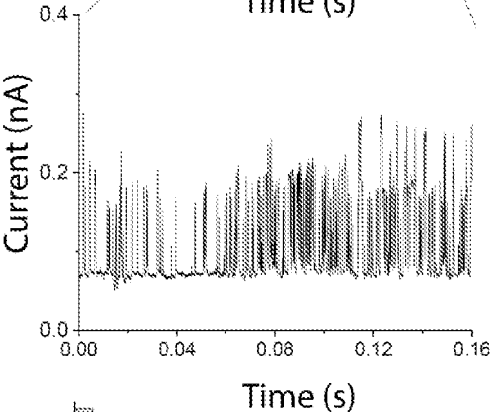


Fig. 18C

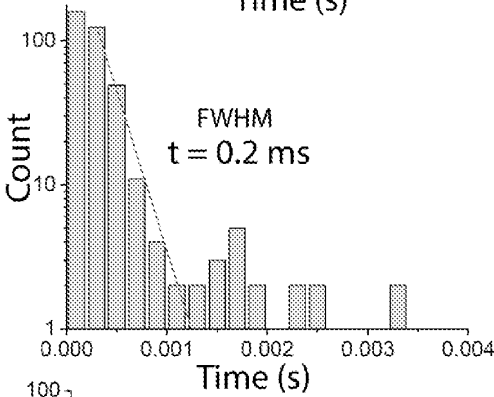


Fig. 18D

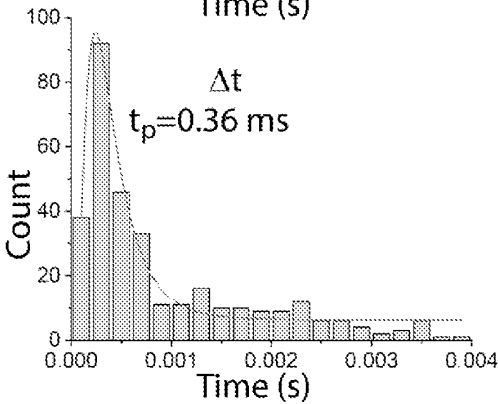


Fig. 18E

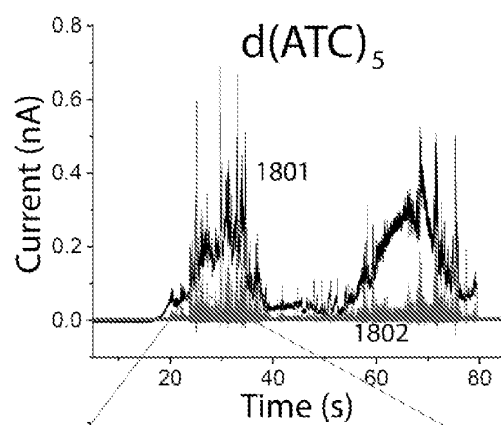


Fig. 18F

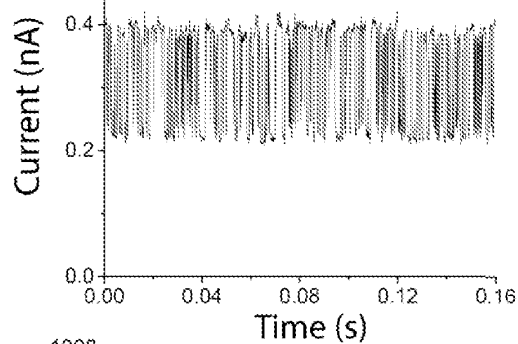


Fig. 18G

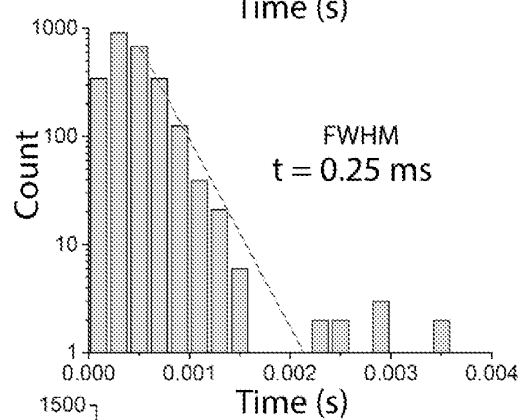
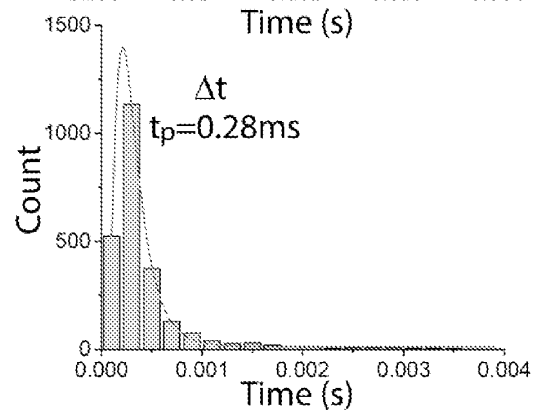
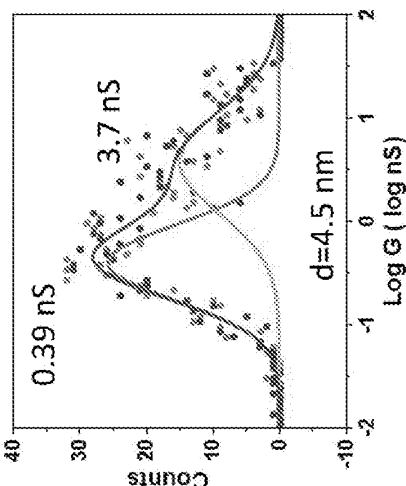
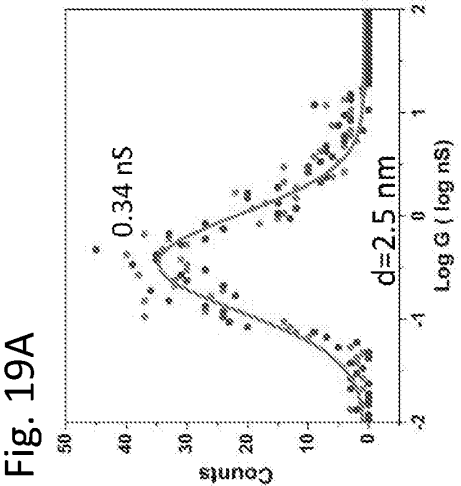
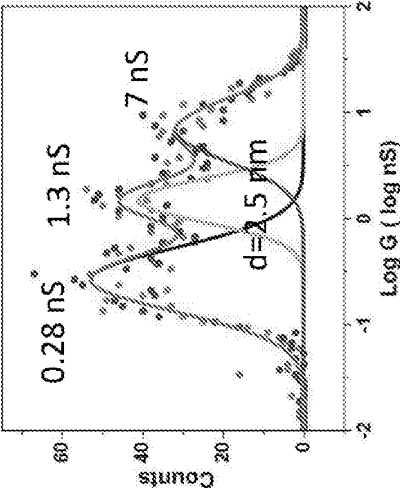
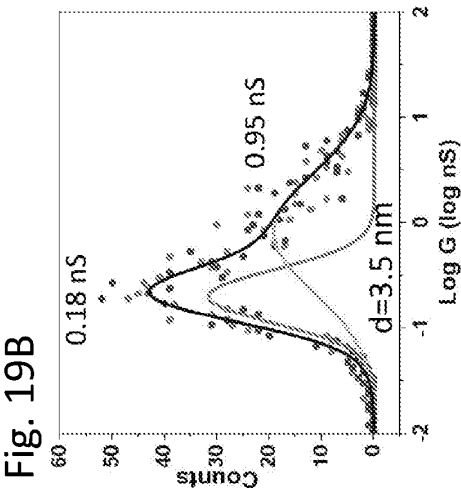


Fig. 18H





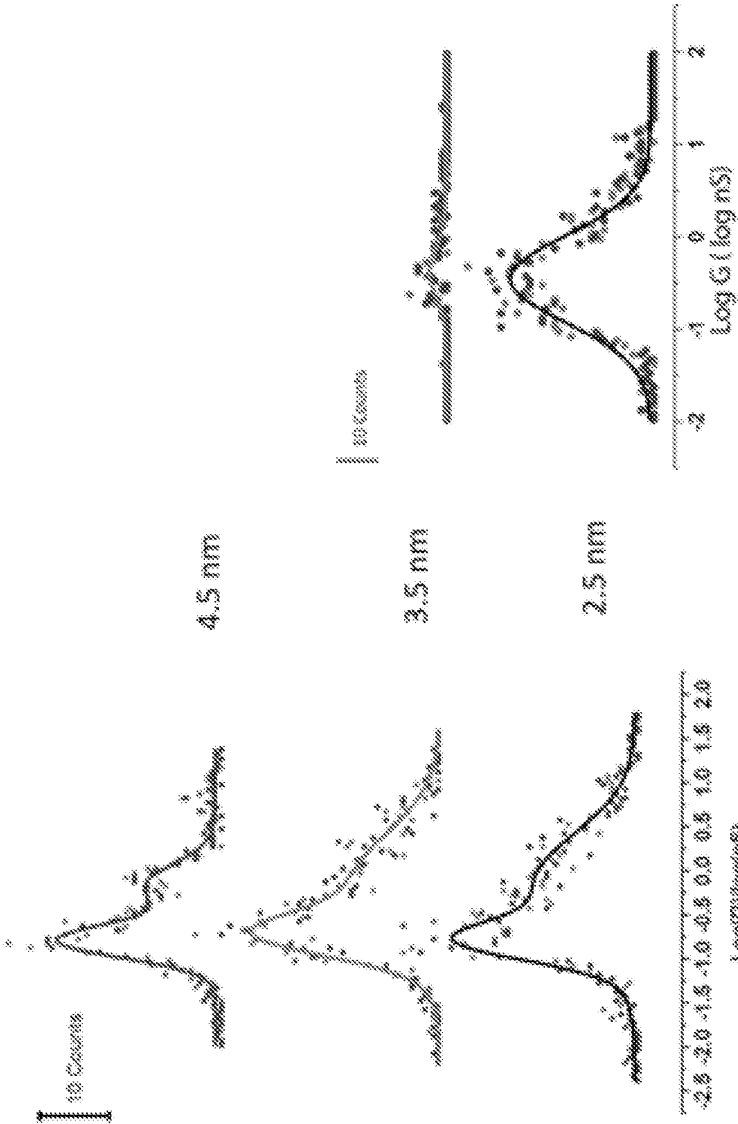


Fig. 20B

Fig. 20A

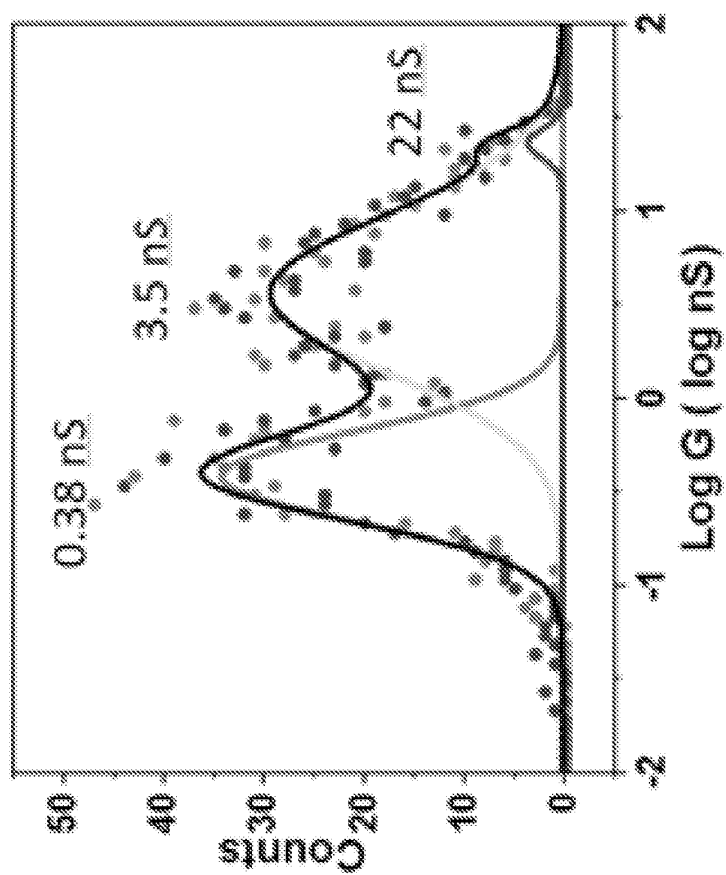


Fig. 21

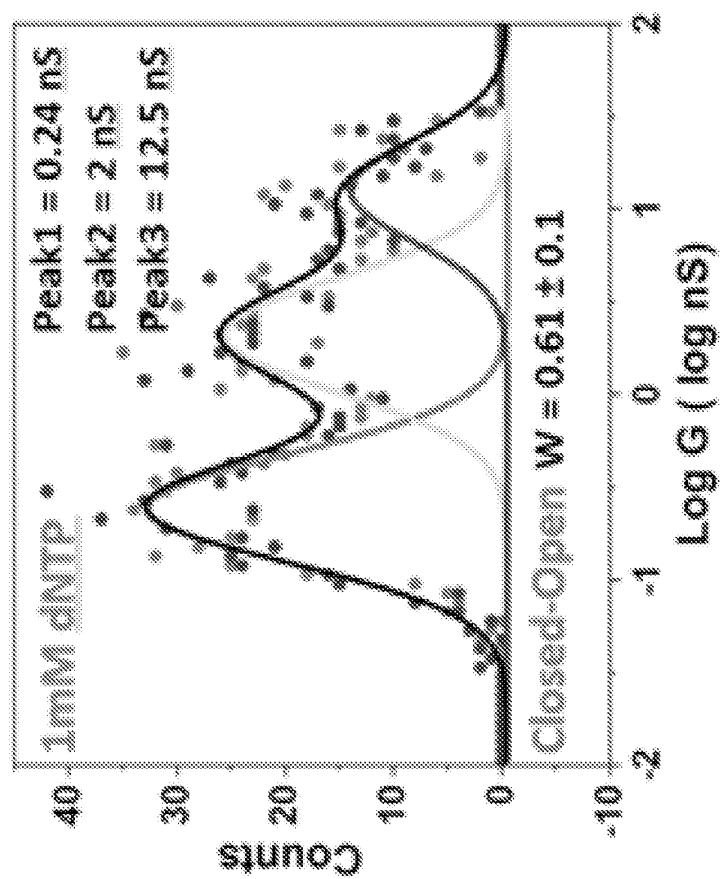


Fig. 22

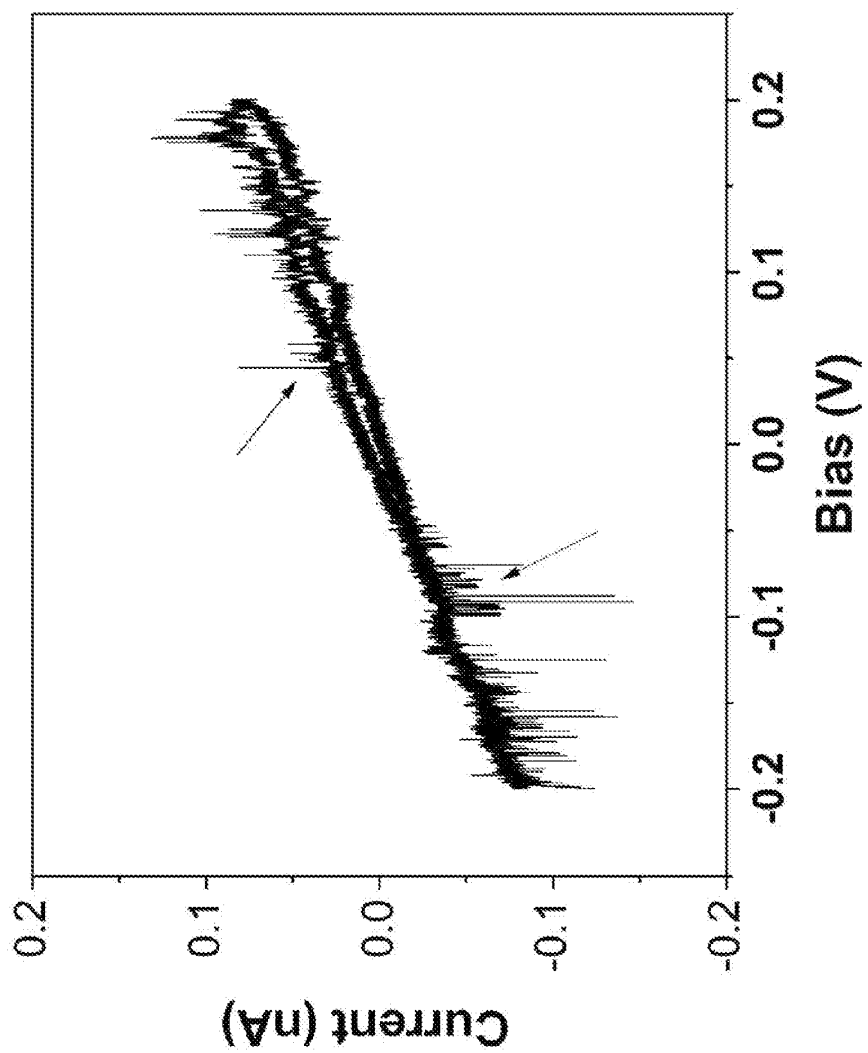


Fig. 23

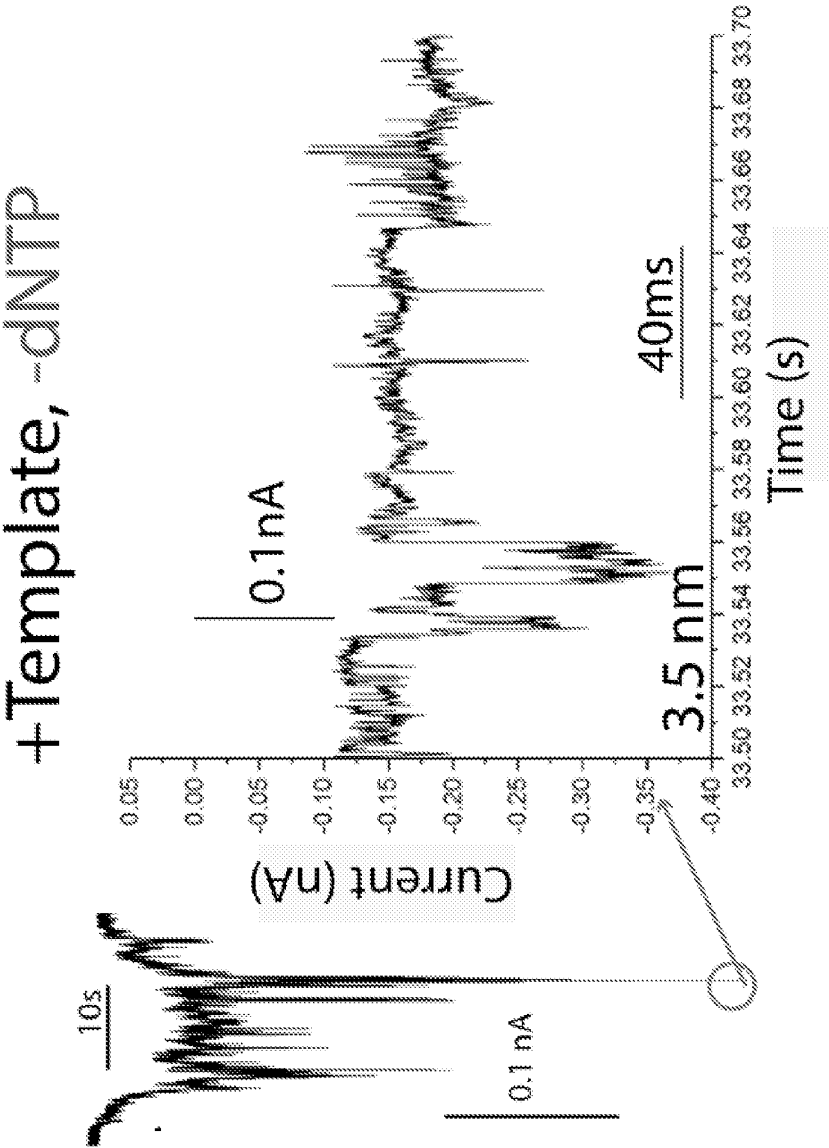


Fig. 24A

Fig. 24B

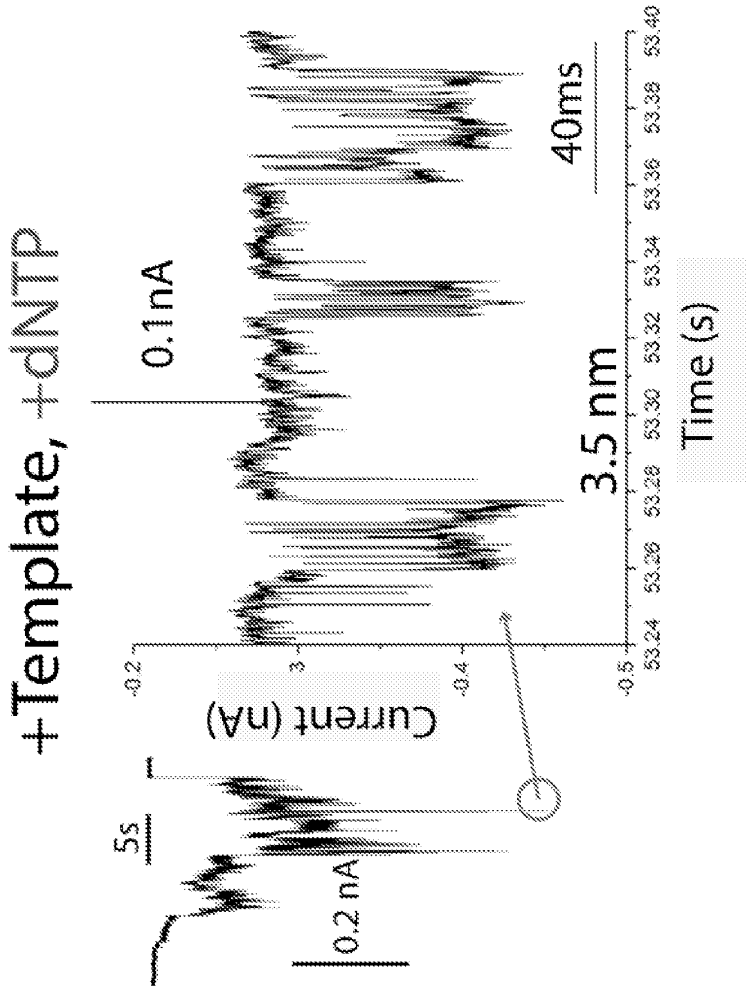


Fig. 24C

Fig. 24D

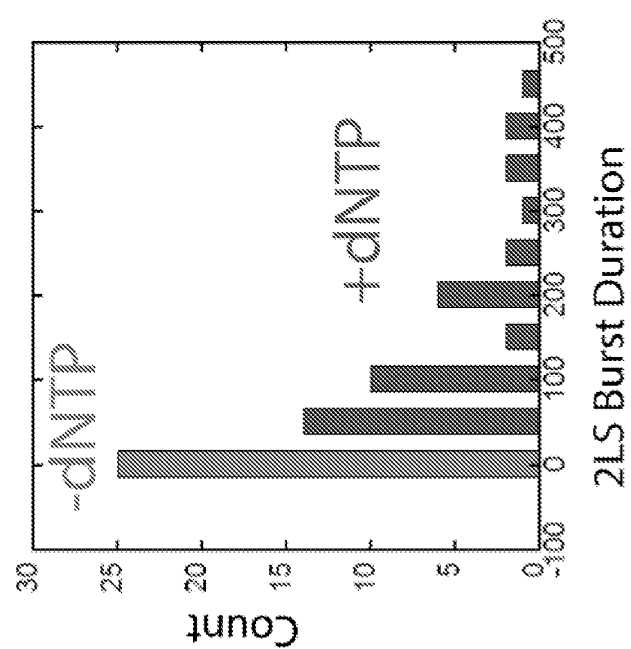


Fig. 24E

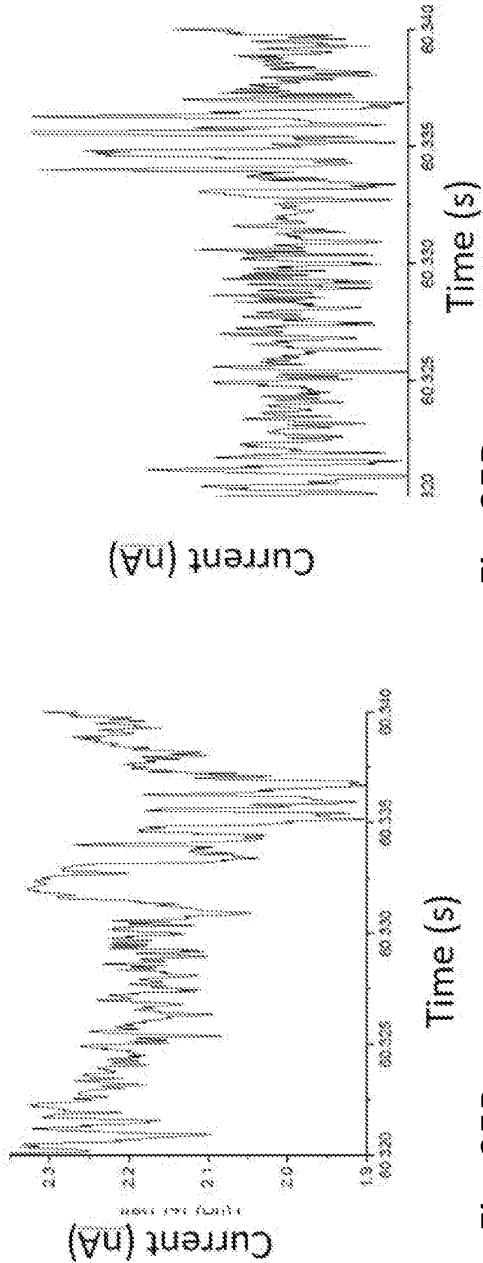
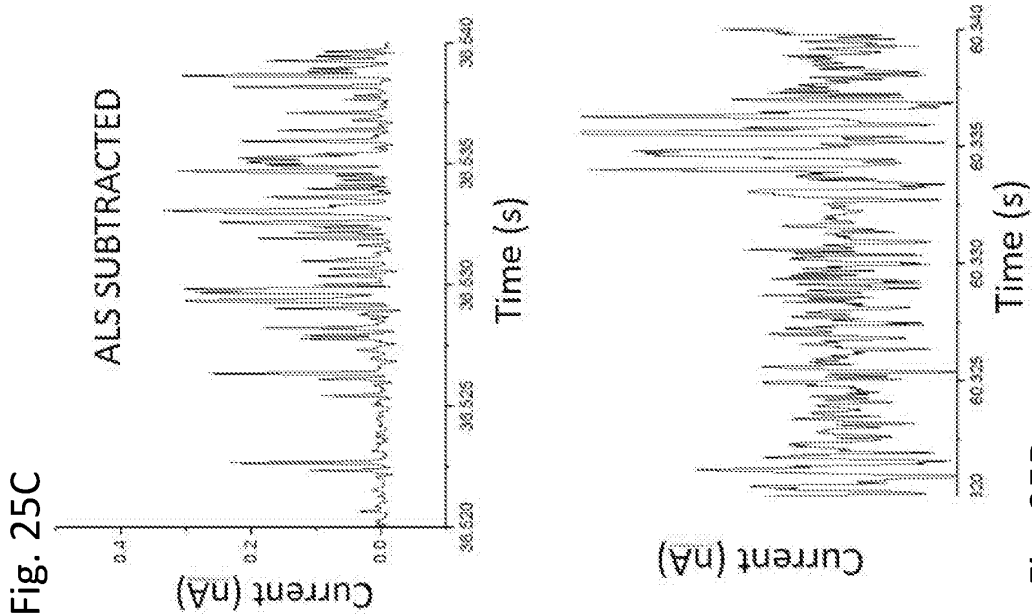
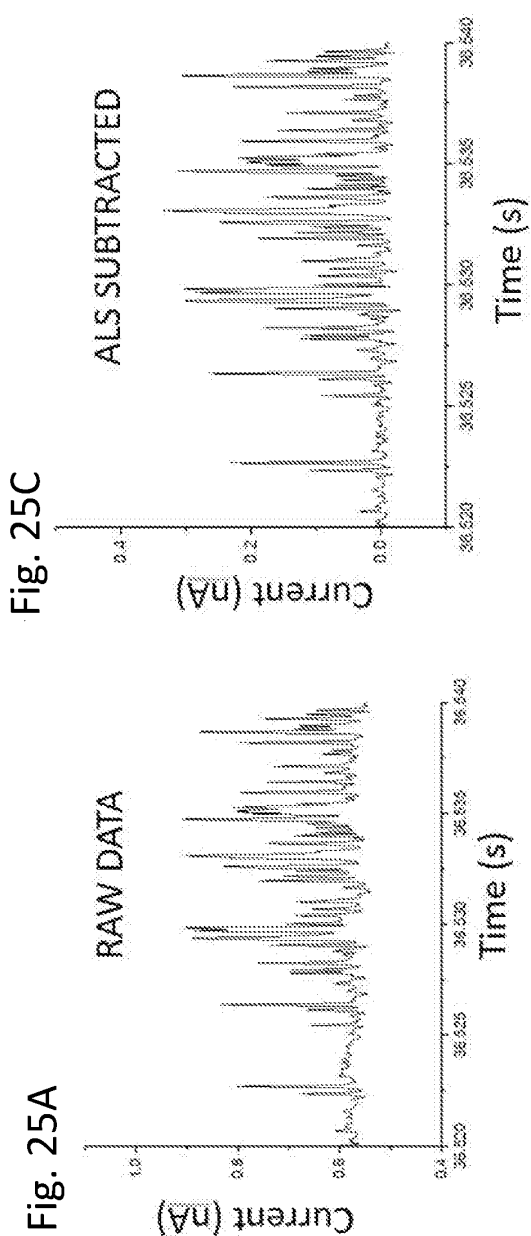


Fig. 25D

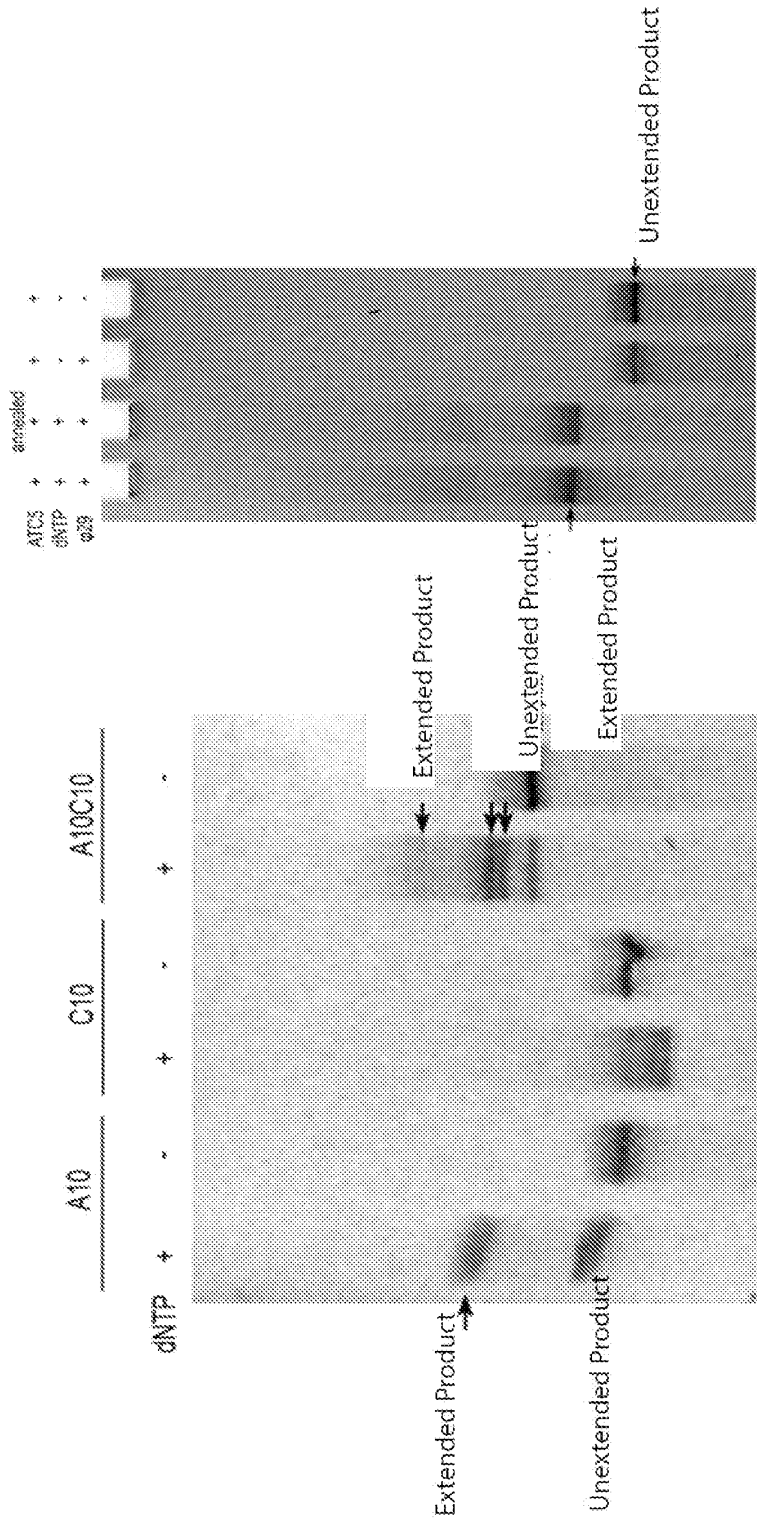


Fig. 26B

Fig. 26A

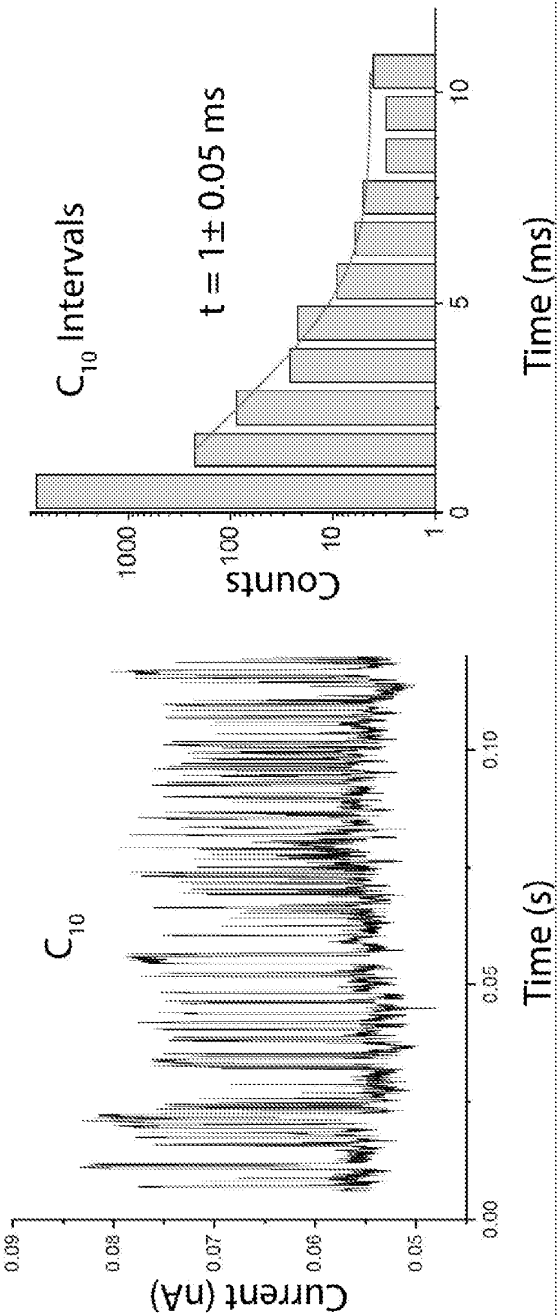


Fig. 27A

Fig. 27B

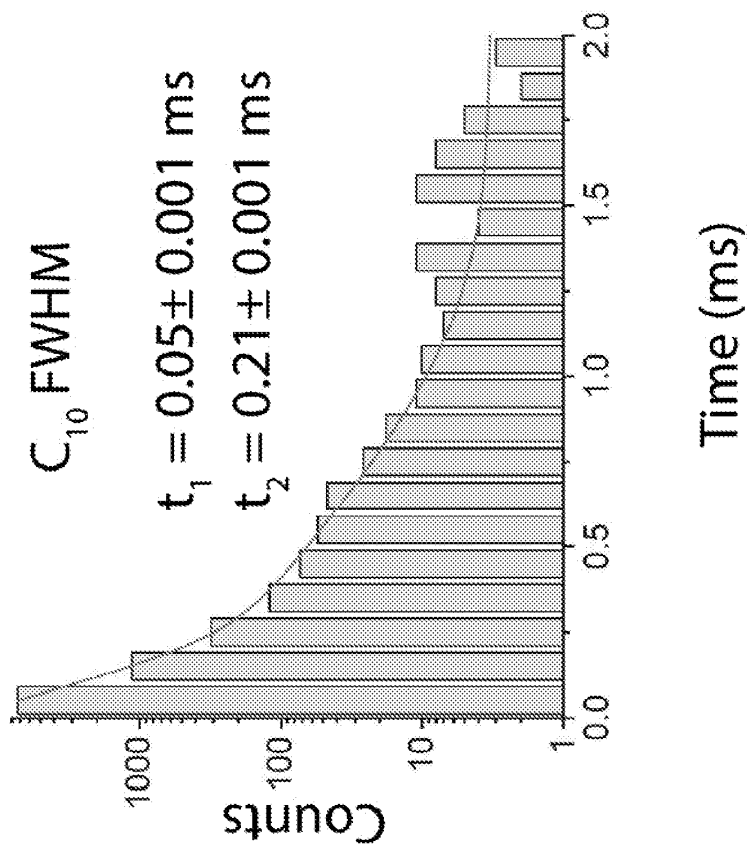


Fig. 27C

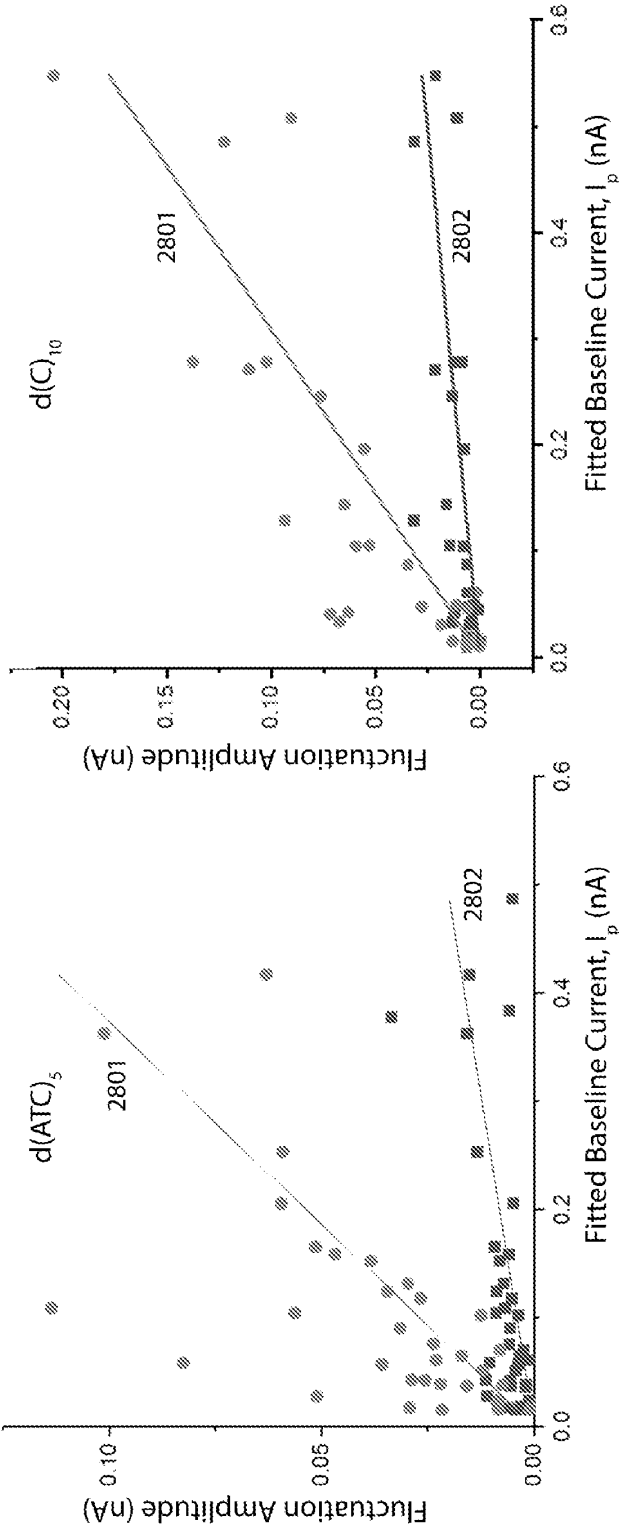


Fig. 28B

Fig. 28A

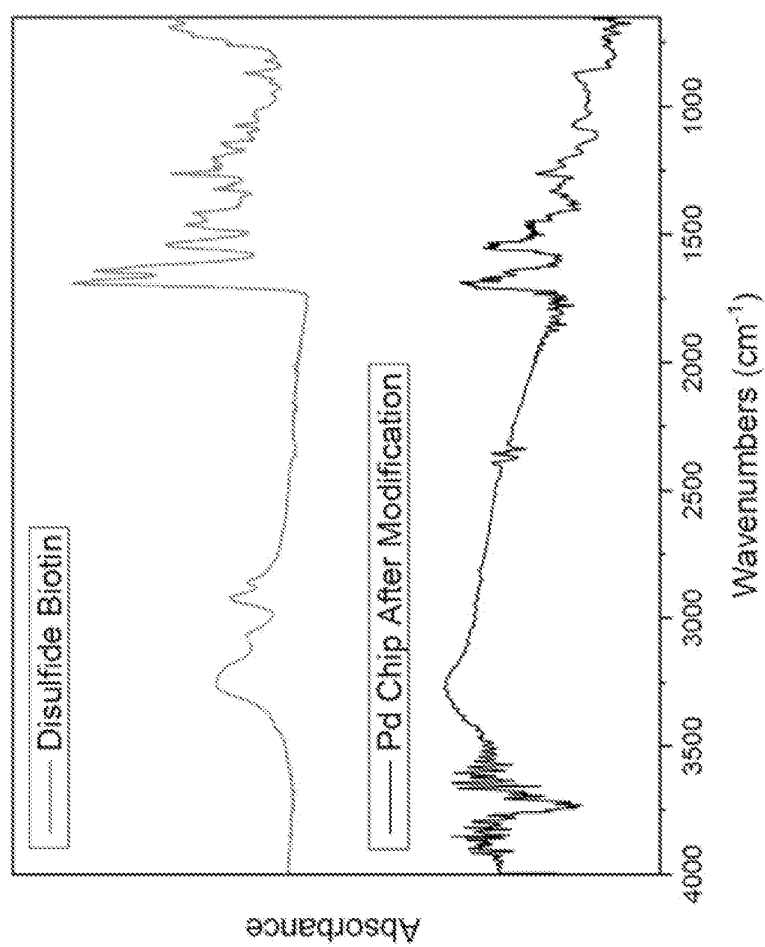


Fig. 29

Fig. 30B

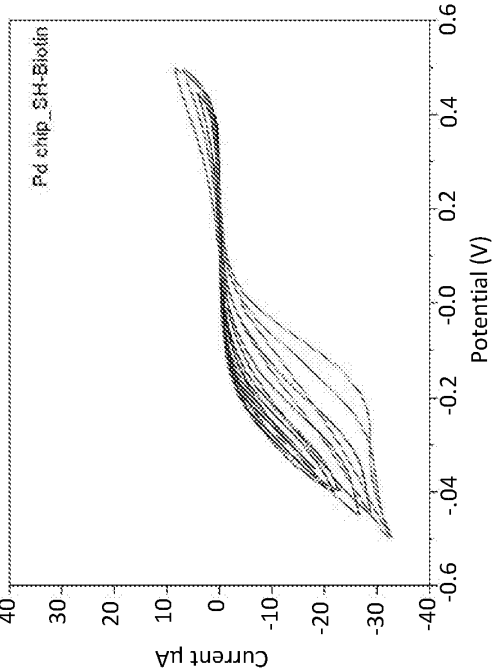


Fig. 30D

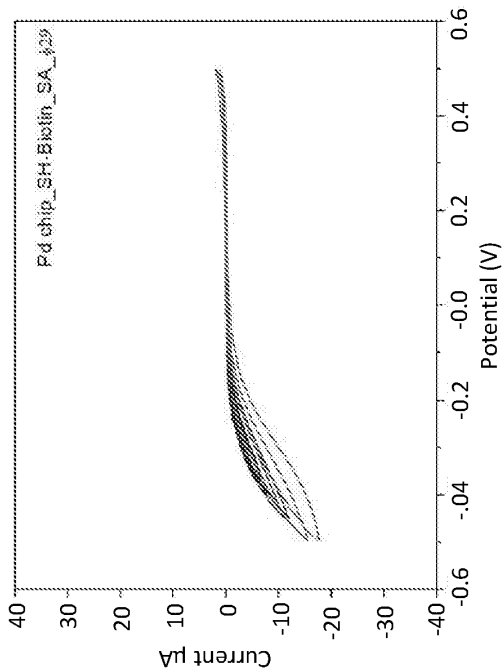


Fig. 30A

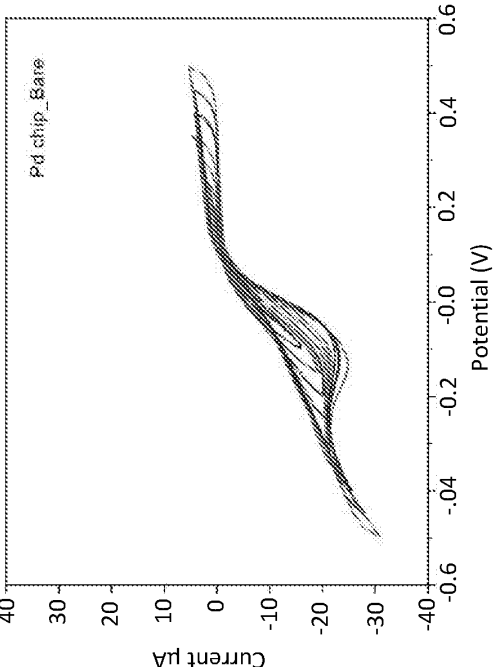


Fig. 30C

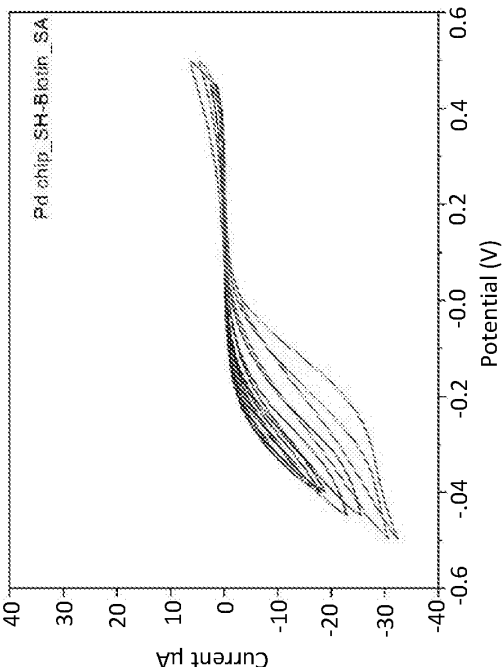


Fig. 31B

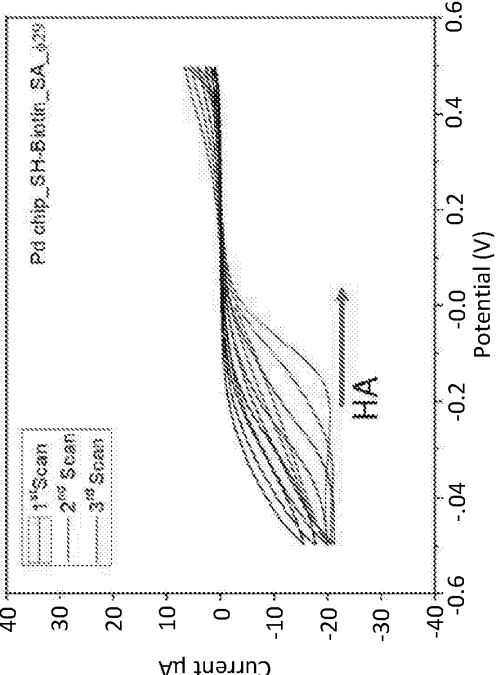
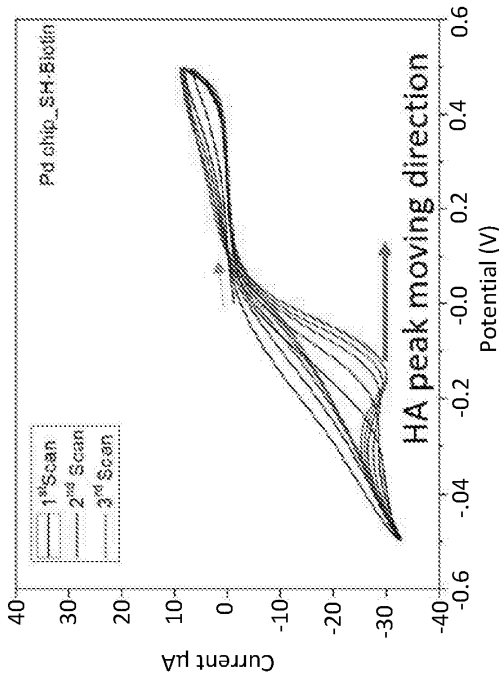


Fig. 31D

Fig. 31A

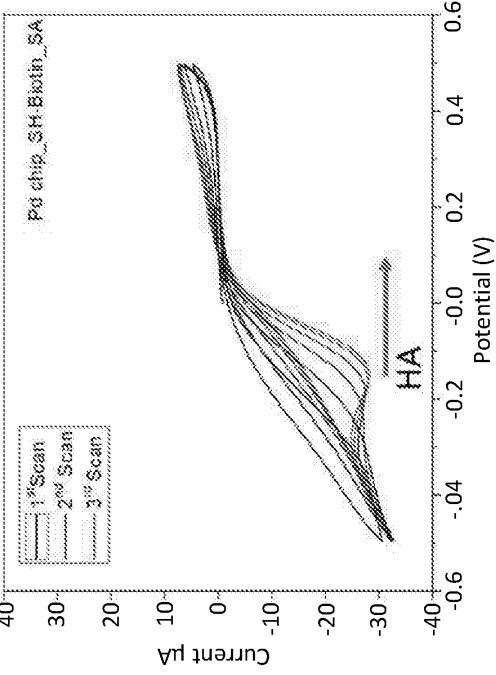
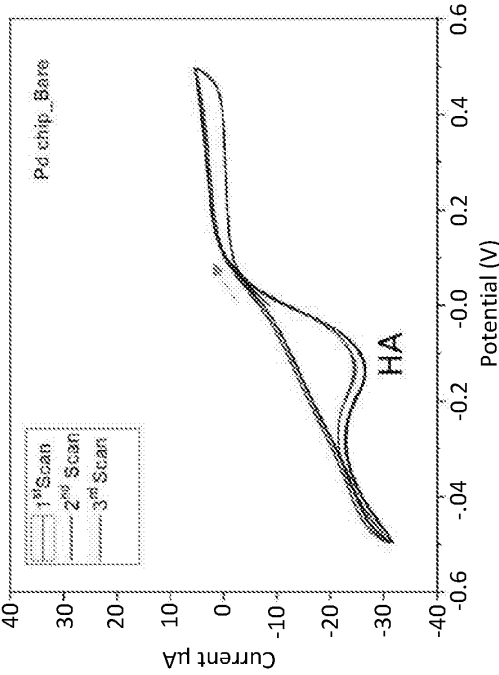


Fig. 31C

Fig. 32B

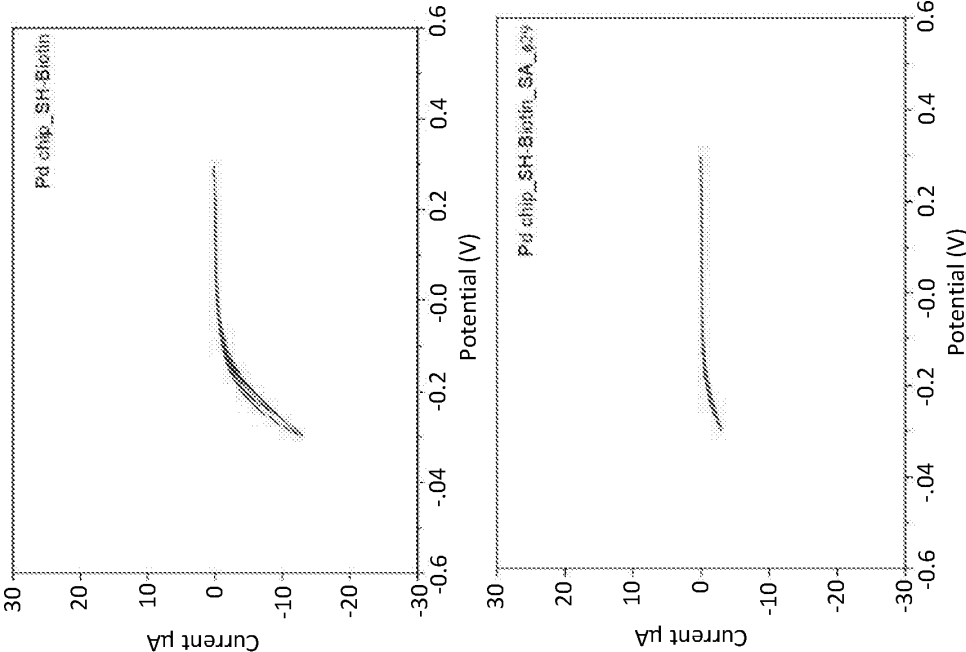


Fig. 32D

Fig. 32A

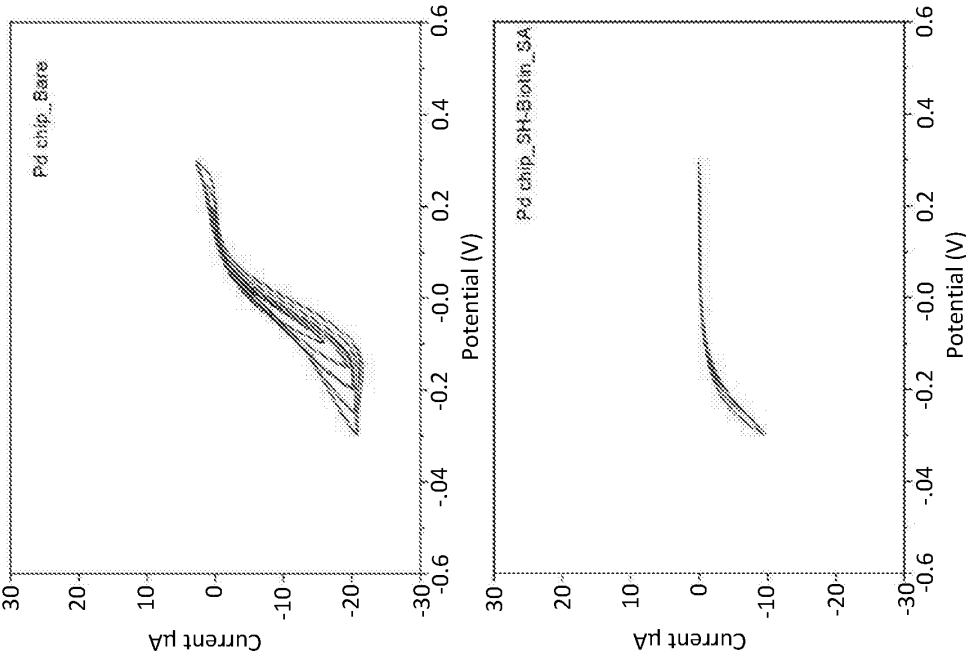


Fig. 32C