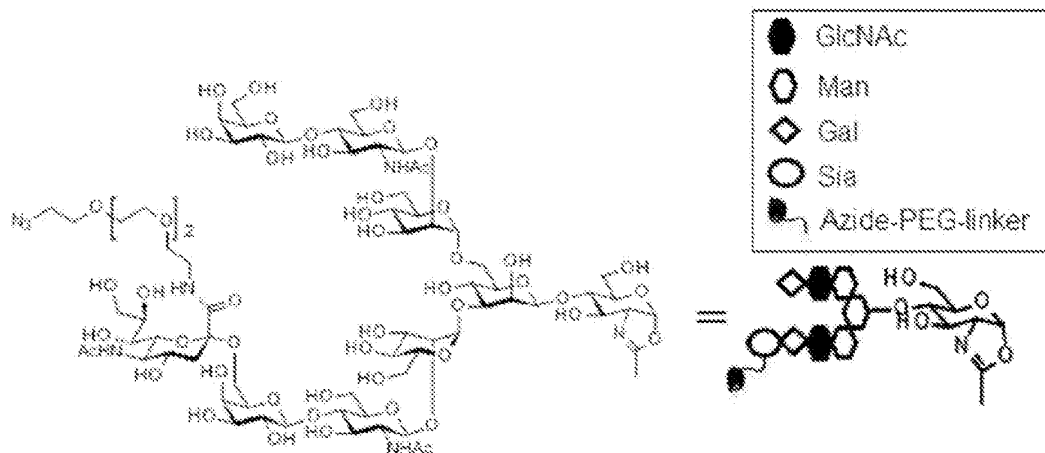
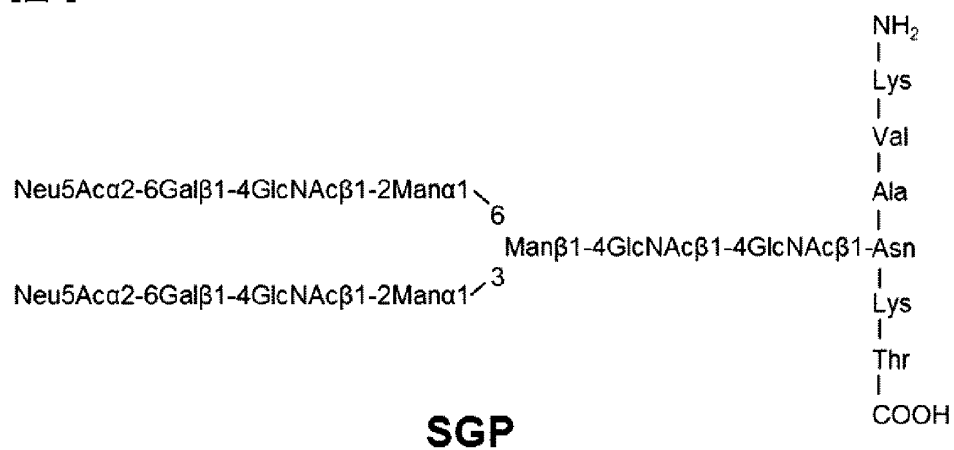


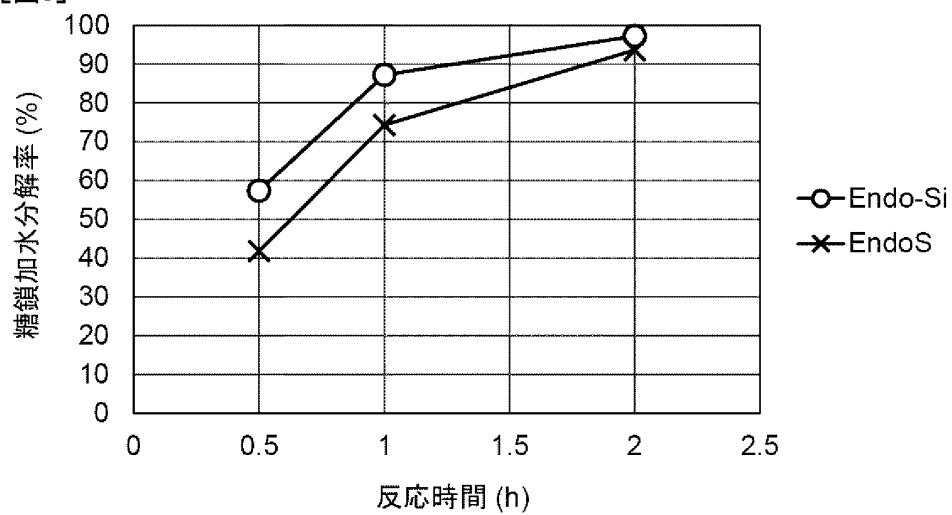
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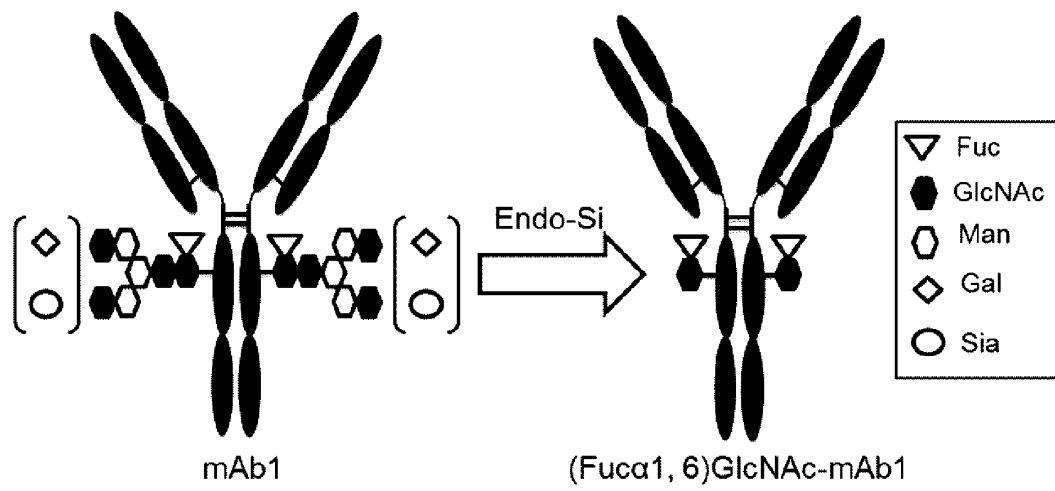
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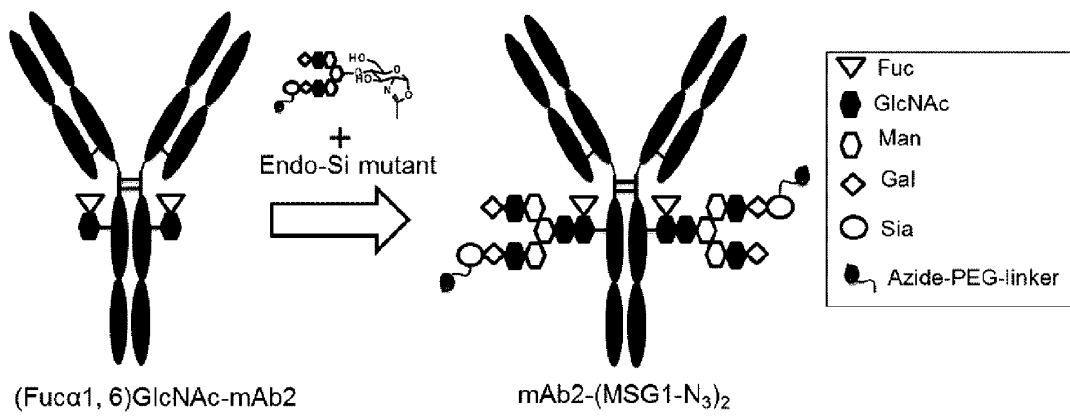
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[図4]



[図5]



[図6]

配列番号1 Endo-Si 塩基配列

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AATAGTAAAGATGAATTTAAGCATTCATGTATGAAATCCCGTCAAATCGTGAACACAAACC
AGTATCACCCAAACAGGCCCTTGCAAAACGCTAAAAAGCTGATGCTCAAGCAGAACGCCTTG
CCAAATGACCATTCTAAAAAGGAAGAACTAAAAGCACTCGAAGGACCACCTTTACGGTGGC
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TGGGGAGTTGCCTAAAGAAGTTGACCTAGCATTTGTTTTTACGACTACACTAAAGACTATA
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[図7]

配列番号2 Endo-Si アミノ酸配列

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 VIRTIPWRFLSGADHSDISADKEKFPNTEAGNKALAKAIVDEYVYKYNLDGLDIDIERDSVP
 KVNDKEDPEALARTVEVFKEIGKLIGANGADKSRLIMDTTYTAEENPLIKETAQYLNLLLV
 QVYGFGSENGNYLHHKNILDETSSMEGRWQGYSKYIRPEQYMGVGSFYEEKDFNNRWKDINE
 EDPSDPHIGEKIQGTRAERYAKWQPKTGGLKGGFLSYAIDRDGVAQPKQKTEHPELDKIVKS
 EYKVSALKKKLMMTDDQYQPIDQSDFPDKALRESIIKQVGTRRGDLERFKGTLRLDNPEIKD
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 DLVISGLSGLESLEDISGHQRDTLSGIDASTLPSLKAINISDNHFDLAQGTENRHILDTILAT
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 EAYKEQTIQGKPFIA PDYLYDNFKVSYKEYSASIVDSTLAETTDKTIDTAKAETYQVTVSNK
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 KTPGTAKHWRFFDDGKNDSVTL SVFKGDASNFE TEKDKAENWVEITKDSRKND DKVFSSPLE
 VDN AKYLKVTIKKEAKYIYFNELQILGYPGVVAKKTADDLRPTEADKSDDKSDKNDTEAK

[図8]

配列番号3 Endo-Si アミノ酸配列 D241Q

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 KVNDKEDPEALARTVEVFKEIGKLIGANGADKSRLIMDTTYTAEENPLIKETAQYLNLLLV
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 EYKVSALKKKLMMTDDQYQPIDQSDFPDKALRESIIKQVGTRRGDLERFKGTLRLDNPEIKD
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 DLVISGLSGLESLEDISGHQRDTLSGIDASTLPSLKAINISDNHFDLAQGTENRHILDTILAT
 LAKNGASTASFDKQKPKGLYPESYSTAPLHLQVGQKINVIDDLIFGTRTNQNTLINTENDE
 EAYKEQTIQGKPFIA PDYLYDNFKVSYKEYSASIVDSTLAETTDKTIDTAKAETYQVTVSNK
 DGKTVHSVKVIVGDEKPMNVNLAQDAKII GTDNMTQSAKVFDGQKDQFLLSWNKDS SVIFEL
 KTPGTAKHWRFFDDGKNDSVTL SVFKGDASNFE TEKDKAENWVEITKDSRKND DKVFSSPLE
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[図9]

配列番号4 Endo-Si アミノ酸配列 D241Q/Q311L

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 VIRTIPWRFLSGADHSDISADKEKFPNTEAGNKALAKAIVDEYVYKYNLDGLDIQIERDSVP
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 EDPSDPHIGEKIQGTRAERYAKWQPKTGGLKGGFLSYAIDRDGVAQPKQKTEHPELDKIVKS
 EYKVSALKKKLMMTDDQYQPIDQSDFPDKALRESIIKQVGTRRGDLERFKGTLRLDNPEIKD
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 EAYKEQTIQGKPFIA PDYLYDNFKVSYKEYSASIVDSTLAETTDKTIDTAKAETYQVTVSNK
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 KTPGTAKHWRFFDDGKNDSVTL SVFKGDASNFE TEKDKAENWVEITKDSRKND DKVFSSPLE
 VDN AKYLKVTIKKEAKYIYFNELQILGYPGVVAKKTADDLRPTEADKSDDKSDKNDTEAK

[図10]

配列番号5 Endo-Si アミノ酸配列D241Q/E360Q

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[図11]

配列番号6 Endo-Si アミノ酸配列 D241M

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 EDPSDPHIGEKIQGTRAERYAKWQPKTGGLKGGFLSYAIDRDGVAQPKQKTEHPELDKIVKS
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 KTPGTAKHWRFFDDGKNDSVTLSVFKGDASNFE TEKDKAENWVEITKDSRKNDDKVFSSPLE
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[図12]

配列番号7 Endo-Si アミノ酸配列 D241M/Q311L

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 YFRTWQDKTSDPTETNKVNSFGELPKEVDLAFVFHDYTKDYSLFWEELATKQVPKLNKQGTR
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 DLVISGLSGLES LDISGHQRDTLSGIDASTLPSLKAINISDNHFDLAQGTENRHILDTILAT
 LAKNGASTASFQKQPKGLYPESYSTAPLHLQVGQGINVIDDLIFGTRTNQNTLINTENDF
 EAYKEQTIQGKPFIA PDYLYDNFKVSYKEYSASIVDSTLAETTDKTIDTAKAETYQVTVSNK
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[図13]

配列番号8 Endo-Si アミノ酸配列D241M/E360Q

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 EDPSPDHIGEKIQGTTRAERYAKWQPKTGGLKGGFLFSYAIDRDGVAQPKQKTEHPELDKIVKS
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 DGKTVH[]SVKVIVGDEKPMNVNLAQDAKIIIGTDNMTQSAKVFDGQKDQFLLSWNKDSSVIFEL
 KTPGTAKHWRFFDDGKNDSVTLSVFKGDASNFE[]TEKDKAENWVEITKDSRKNDDKVFSSPLE
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[図14]

配列番号9 Endo-Si アミノ酸配列 T190Q/D241Q

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 KVNDKEDPEALARTVEVFKEIGKLIGANGADKSRLIMDTTYTAENPLIKETAQYLNLLLV
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 EDPSPDHIGEKIQGTTRAERYAKWQPKTGGLKGGFLFSYAIDRDGVAQPKQKTEHPELDKIVKS
 EYKVSALKKKLMMTDDQYQPIDQSDFPDKALRESIIKQVGTRRGDLERFKGTLRLDNPEIKD
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 LAKNGASTASFDKQKPKGLYPESYSTAPLHLQVGQKINVIDDLIFGTRTNQNTLINTENDF
 EAYKEQTIQGKPFIAPDYLYDNFKVSYKEYSASIVDSTLAETTDKTIDTAKAETYQVTVSNK
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 KTPGTAKHWRFFDDGKNDSVTLSVFKGDASNFE[]TEKDKAENWVEITKDSRKNDDKVFSSPLE
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[図15]

配列番号10 Endo-Si アミノ酸配列 T190Q

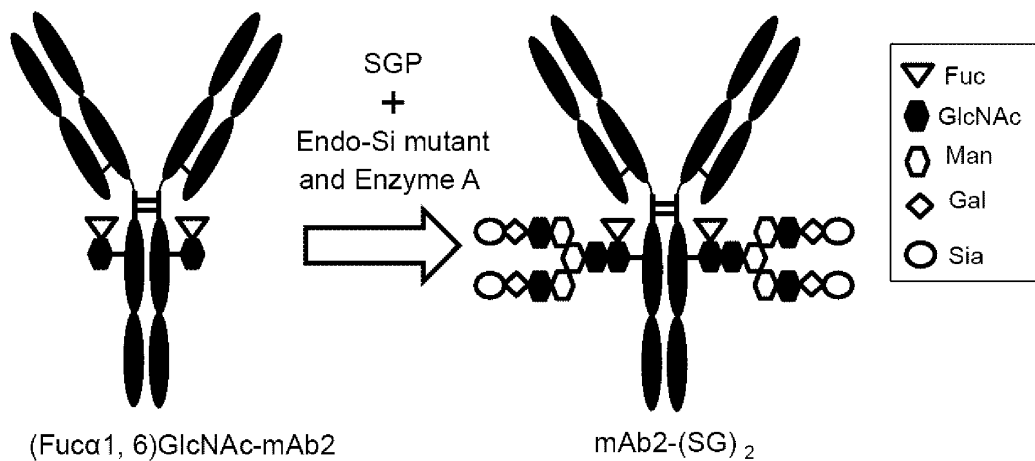
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[図16]

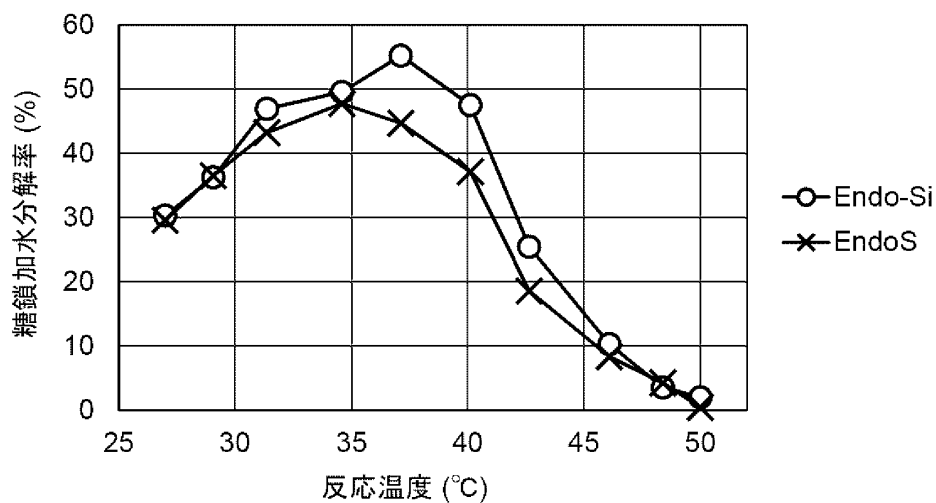
配列番号11 Endo-Si アミノ酸配列 T190Q/D241M

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 YFRTWQDKTSDPTETNKVNSFGELPKVEVDLAFVFHDYTKDYSLFWEELATKQVPKLNKQGTR
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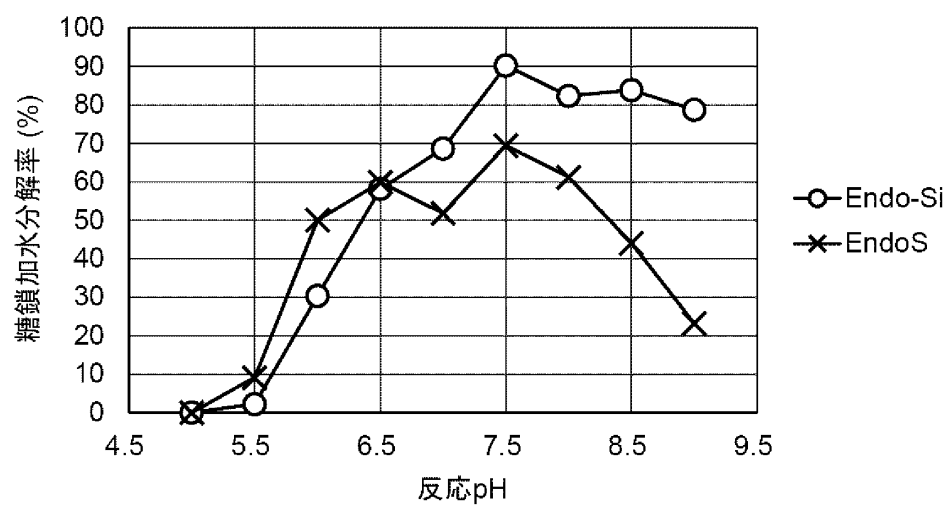
[図17]



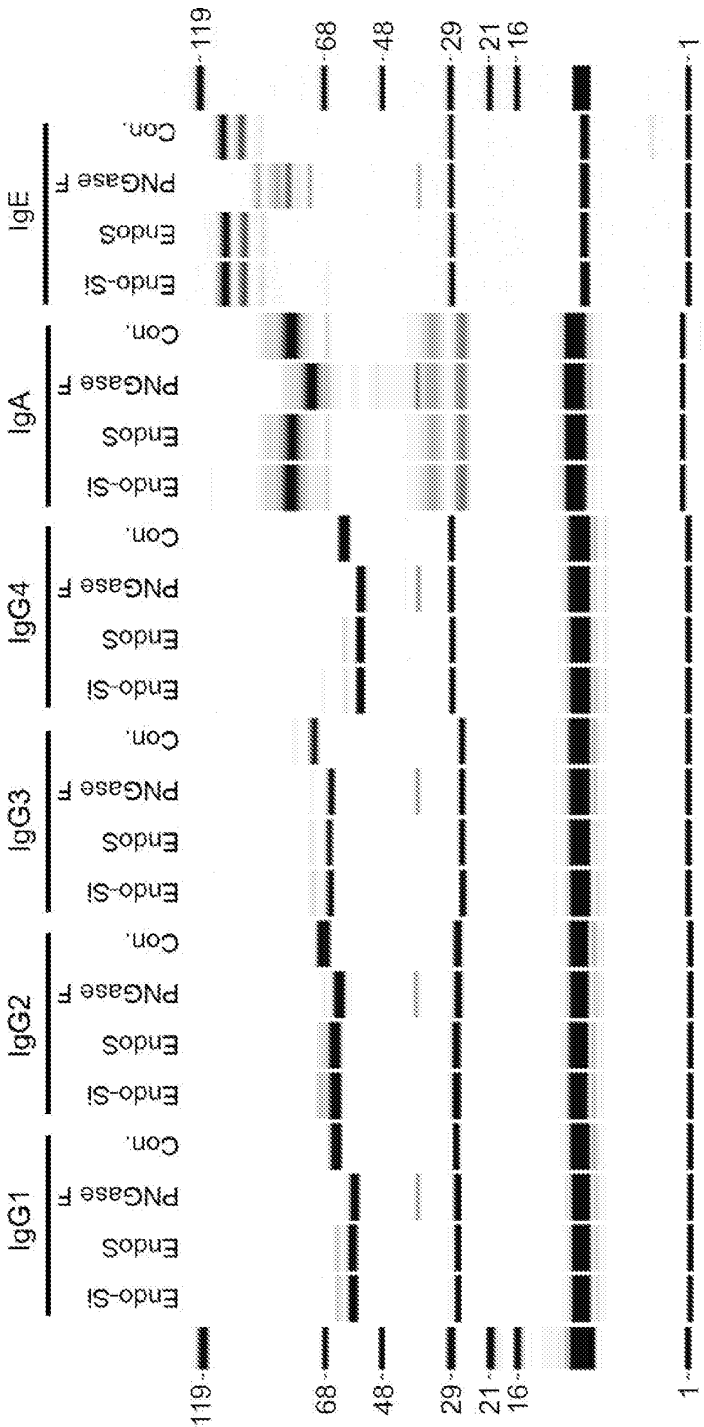
[図18]



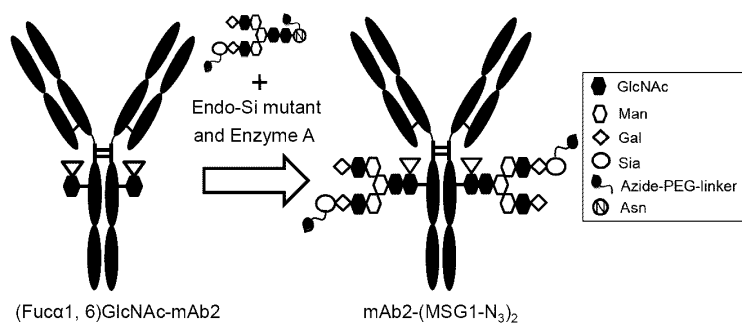
[図19]



[図20]



[図21]



[図22]

