Application Project

<110> Sanofi-Aventis-Deutschland GmbH

<120> Title : Fluorescence-based assay for detecting compounds for modulating the sodium-calcium exchanger (NCX) in "forward mode"

<130> AppFileReference : DE2007/007

<160> 3

Sequence

<213> OrganismName : Homo sapiens

<400> PreSequenceString :

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LPIWEPQDPS FGDKIARATV YFVAMVYMFL GVSIIADRFM SSIEVITSQE KEITIKKPNG     120
ETTKTTVRIW NETVSNLTLM ALGSSAPEIL LSVIEVCGHN FTAGDLGPST IVGSAAFNMF     180
IIIALCVYVV PDGETRKIKH LRVFFVTAAW SIFAYTWLYI ILSVISPGVV EVWEGLLTFF     240
FFPICVVFAW VADRRLLFYK YVYKRYRAGK QRGMIIEHEG DRPSSKTEIE MDGKVVNSHV     300
ENFLDGALVL EVDERDQDDE EARREMARIL KELKQKHPDK EIEQLIELAN YQVLSQQQKS     360
RAFYRIQATR LMTGAGNILK RHAADQARKA VSMHEVNTEV TENDPVSKIF FEQGTYQCLE     420
NCGTVALTII RRGGDLTNTV FVDFRTEDGT ANAGSDYEFT EGTVVFKPGD TQKEIRVGII     480
DDDIFEEDEN FLVHLSNVKV SSEASEDGIL EANHVSTLAC LGSPSTATVT IFDDDHAGIF     540
TFEEPVTHVS ESIGIMEVKV LRTSGARGNV IVPYKTIEGT ARGGGEDFED TCGELEFQND     600
EIVKTISVKV IDDEEYEKNK TFFLEIGEPR LVEMSEKKAL LLNELGGFTI TGKYLFGQPV     660
FRKVHAREHP ILSTVITIAD EYDDKQPLTS KEEEERRIAE MGRPILGEHT KLEVIIEESY     720
EFKSTVDKLI KKTNLALVVG TNSWREQFIE AITVSAGEDD DDDECGEEKL PSCFDYVMHF     780
LTVFWKVLFA FVPPTEYWNG WACFIVSILM IGLLTAFIGD LASHFGCTIG LKDSVTAVVF     840
VALGTSVPDT FASKVAATQD QYADASIGNV TGSNAVNVFL GIGVAWSIAA IYHAANGEQF     900
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<212> Type : PRT

<211> Length : 973

SequenceName : SEQ ID NO 1

SequenceDescription :

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<213> OrganismName : Homo sapiens

<400> PreSequenceString :

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DDPSLGDKAA RAVVYFVAMV YMFLGVSIIA DRFMAAIEVI TSKEKEITIT KANGETSVGT     120
VRIWNETVSN LTLMALGSSA PEILLSVIEV CGHNFQAGEL GPGTIVGSAA FNMFVVIAVC     180
IYVIPAGESR KIKHLRVFFV TASWSIFAYV WLYLILAVFS PGVVQVWEAL LTLVFFPVCV     240
VFAWMADKRL LFYKYVYKRY RTDPRSGIII GAEGDPPKSI ELDGTFVGAE APGELGGLGP     300
GPAEARELDA SRREVIQILK DLKQKHPDKD LEQLVGIANY YALLHQQKSR APYRIQATRL     360
MTGAGNVLRR HAADASRRAA PAEGAGEDED DGASRIFFEP SLYHCLENCG SVLLSVTCQG     420
GEGNSTFYVD YRTEDGSAKA GSDYEYSEGT LVFKPGETQK ELRIGIIDDD IFEEDEHFFV     480
RLLNLRVGDA QGMFEPDGGG RPKGRLVAPL LATVTILDDD HAGIFSFQDR LLHVSECMGT     540
VDVRVVRSSG ARGTVRLPYR TVDGTARGGG VHYEDACGEL EFGDDETMKT LQVKIVDDEE     600
YEKKDNFFIE LGQPQWLKRG ISALLLNQGD GDRKLTAEEE EARRIAEMGK PVLGENCRLE     660
VIIEESYDFK NTVDKLIKKT NLALVIGTHS WREQFLEAIT VSAGDEEEEE DGSREERLPS     720
CFDYVMHFLT VFWKVLFACV PPTEYCHGWA CFGVSILVIG LLTALIGDLA SHFGCTVGLK     780
DSVNAVVFVA LGTSIPDTFA SKVAALQDQC ADASIGNVTG SNAVNVFLGL GVAWSVAAVY     840
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GLWLLYILFA SLEAYCHIRG F                                               921
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<212> Type : PRT

<211> Length : 921

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SequenceDescription :

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<213> OrganismName : Homo sapiens

<400> PreSequenceString :

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TSTTTIRVWN ETVSNLTLMA LGSSAPEILL SLIEVCGHGF IAGDLGPSTI VGSAAFNMFI     180
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IIGICVYVIP DGETRKIKHL RVFFITAAWS IFAYIWLYMI LAVFSPGVVQ VWEGLLTLFF     240
FPVCVLLAWV ADKRLLFYKY MHKKYRTDKH RGIIIETEGD HPKGIEMDGK MMNSHFLDGN     300
LVPLEGKEVD ESRREMIRIL KDLKQKHPEK DLDQLVEMAN YYALSHQQKS RAFYRIQATR     360
MMTGAGNILK KHAAEQAKKA SSMSEVHTDE PEDFISKVFF DPCSYQCLEN CGAVLLTVVR     420
KGGDMSKTMY VDYKTEDGSA NAGADYEFTE GTVVLKPGET QKEFSVGIID DDIFEEDEHF     480
FVRLSNVRIE EEQPEEGMPP AIFNSLPLPR AVLASPCVAT VTILDDDHAG IFTFECDTIH     540
VSESIGVMEV KVLRTSGARG TVIVPFRTVE GTAKGGGEDF EDTYGELEFK NDETVKTIRV     600
KIVDEEEYER QENFFIALGE PKWMERGISA LLLSPDRKLT MEEEEAKRIA EMGKPVLGEH     660
PKLEVIIEES YEFKTTVDKL IKKTNLALVV GTHSWRDQFM EAITVSAAGD EDEDESGEER     720
LPSCFDYVMH FLTVFWKVLF ACVPPTEYCH GWACFAVSIL IIGMLTAIIG DLASHFGCTI     780
GLKDSVTAVV FVAFGTSVPD TFASKAAALQ DVYADASIGN VTGSNAVNVF LGIGLAWSVA     840
AIYWALQGQE FHVSAGTLAF SVTLFTIFAF VCISVLLYRR RPHLGGELGG PRGCKLATTW     900
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