

## ABSTRACT

The present invention relates to rat cerebellum-derived and human brain-derived G protein coupled  
5 receptor proteins or salts thereof, their partial  
peptides, amides, esters or salts thereof, ligands to  
the same, a method/kit for screening compounds that  
alter the binding property between the ligands and the  
G protein coupled receptor proteins, compounds obtained  
10 by the screening or salts thereof, and antibodies to  
the G protein coupled receptor proteins.

The rat cerebellum-derived and human brain-derived  
G protein coupled receptor proteins and the like are  
useful: (1) for determination of a ligand to the  
15 receptor protein of the present invention (ligand  
peptide of the present invention) (agonist), (2) as an  
agent for the prevention and/or treatment of diseases  
associated with dysfunction of the G protein coupled  
receptor protein of the present invention, (3) as a  
20 genetic diagnostic agent, (4) for quantification of a  
ligand to the G protein coupled receptor protein of the  
present invention, (5) for screening of a compound  
(agonist, antagonist, etc.) that alters the binding  
property between the G protein coupled receptor protein  
25 of the present invention and a ligand (ligand peptide  
of the present invention), (6) as a agent for the  
prevention and/or treatment of various diseases,  
comprising a compound (agonist, antagonist, etc.) that  
alters the binding property between the G protein  
30 coupled receptor protein of the present invention and a  
ligand (ligand peptide of the present invention), (7)  
for quantification of the receptor protein, its partial  
peptide or salts of the present invention, (8) for  
neutralization by antibodies to the receptor protein,  
35 its partial peptide or salts of the present invention

and (9) for preparation of a non-human animal bearing the DNA encoding the G protein coupled receptor protein of the present invention.