

疾患にリンクした
膜タンパク質の
糖ペプチド抗原ラインアップ

GlyPAdoc™ リスト

1. GPCR編_1.0.



医化学創薬株式会社

GlyPAdoc™は、さまざまな疾患とリンクする膜タンパク質の細胞外糖鎖修飾部位情報をもとに、抗原糖ペプチドをデザインしラインアップしたものです。本リストは、疾患、ターゲット膜タンパク質、糖鎖修飾部位に関する情報をリストアップいたしました。

凡例

GlyPAdoc™シリーズ第1弾として、G-タンパク質共役受容体 (GPCR) 編リスト-PDF版 をお届けします。

◆ PDFの検索機能で、疾患領域、対象疾患、ターゲット分子、および糖鎖修飾の単語からご自由に検索することができます。

ターゲット分子：GPCR

Reference no.

GA- : GPCR Class A

GB- : GPCR Class B

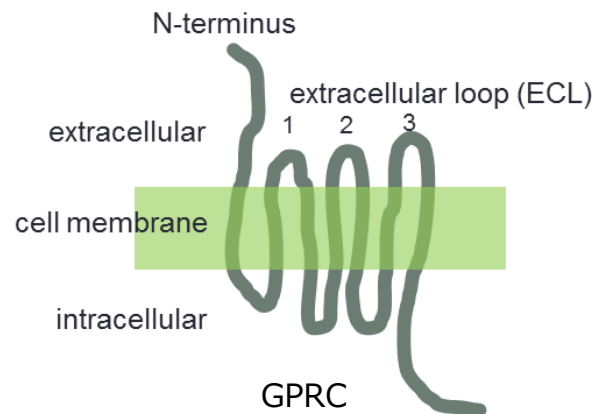
GC- : GPCR Class C

GD- : adhesion GPCR

疾患領域	対象疾患	ターゲット分子				Reference no.
		遺伝子名	名称	リガンド	糖鎖修飾	
CV	脳卒中	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA- 0003
CV	アテローム性動脈硬化症	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA- 0003
CV	アテローム性動脈硬化症に	GPER1/CEPR/CMKBP1/DRY12/	G-protein coupled estrogen receptor	17-beta-estradiol (E2)	N2-L0	GA- 0010

疾患領域

CV : 循環器
 GI : 消化器
 ID : 免疫・皮膚
 Inf : 感染
 K : 腎臓
 M : 代謝
 Ns : ニューロサイエンス
 Ob : 産科
 Onc : オンコロジー
 Op : 眼科
 Oto : 耳鼻咽喉科
 R : 呼吸器
 Ur : 泌尿器
 Mis : その他



Nの次ぎ数字はN末端の糖鎖修飾部位数を表します。

Lの次の数字はECLの糖鎖修飾部位数を表します。

() 内の数字は、
 ECL 1 の糖鎖修飾部位数 例(12)はECL 1 に2部位
 ECL 2 の糖鎖修飾部位数 例(23)はECL2に3部位
 ECL 3 の糖鎖修飾部位数 例(31)はECL3に1部位

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
CV	アテローム血栓症	PAR4	Protease-activated receptor-4	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L0	GA-	0072
CV	アテローム性動脈硬化症	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
CV	アテローム性動脈硬化症	EDG5/S1P2	Sphingosine-1-phosphate receptor 2	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0029
CV	アテローム性動脈硬化症	BLT1/GPR16/P2RY7	Leukotriene B4 receptor 1 Chemoattractant receptor-like 1 P2Y7	Leukotriene B4, extracellular ATP > UTP and ADP	N1-L1(21)	GA-	0033
CV	アテローム性動脈硬化症	GPR176	G-protein coupled receptor 176 HB-954	Orphan, involved in normal circadian rhythm behavior	N4-L0	GA-	0042
CV	アテローム性動脈硬化症	GPR132/GA-2	Probable G-protein coupled receptor 132	Proton	N2-L0	GA-	0194
CV	アテローム性動脈硬化症による炎症	GPER1/CEPR/CMKRL2/DRY12/GPER/GPR30	G-protein coupled estrogen receptor 1 G-protein coupled receptor 30	17-beta-estradiol (E2)	N3-L0	GA-	0010
CV	虚血, 脳卒中	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist	N0-L3(23)	GA-	0066
CV	虚血性心疾患	GPR68/OGR1	Ovarian cancer G-protein coupled receptor 1	Proton	N2-L0	GA-	0196
CV	血圧, 脳卒中	AVPR1A	Vasopressin V1a receptor Antidiuretic hormone receptor 1a	Arginine vasopressin	N2-L0	GA-	0051
CV	遺伝性血管浮腫, 虚血時の組織保護	BDKRB2	B2 bradykinin receptor BK-2 receptor	Bradykinin	N2-L1(21)	GA-	0074
CV	血栓塞栓症	BAI3/ADGRB3	Adhesion G protein-coupled receptor B3 Brain-specific angiogenesis inhibitor 3	Orphan	N13-L11(11)	GD-	0144

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
CV	高血圧症	ADRA1A/ADRA1C	Alpha-1A adrenergic receptor Alpha-1A adrenoreceptor Alpha-1C adrenergic receptor	Catecholamine	N3-L0	GA-	0094
CV	高血圧症	ADRB2/ADRB2R / B2AR	Beta-2 adrenergic receptor Beta-2 adrenoreceptor	Catecholamine	N2-L1(21)	GA-	0097
CV	高血圧症	AGTR1/AGTR1A/AGTR1B/AT2R1/AT2R1B	Type-1 angiotensin II receptor, AT1	Angiotensin II	N1-L2(22)	GA-	0099
CV	循環器疾患	GPER1/CEPR/CMKRL2/DRY12/GPER/GPR30	G-protein coupled estrogen receptor 1 G-protein coupled receptor 30	17-beta-estradiol (E2)	N3-L0	GA-	0010
CV	循環器疾患	GPR22	Probable G-protein coupled receptor 22	Orphan	N1-L1(21)	GA-	0107
CV	心筋症, 心筋炎	ADRB1/ADRB1R / B1AR	Beta-1 adrenergic receptor Beta-1 adrenoreceptor	Catecholamine	N1-L0	GA-	0096
CV	心肥大	GPR37L1 (ETBR-LP-2)	Prosaposin receptor GPR37L1 Endothelin B receptor-like protein 2	The neuroprotective and glioprotective factor prosaposin	N6(N1O5)-L0	GA-	0076
CV	心肥大	GPR132/GA-2	Probable G-protein coupled receptor 132	Proton	N2-L0	GA-	0194
CV	心不全	ADRB1/ADRB1R / B1AR	Beta-1 adrenergic receptor Beta-1 adrenoreceptor	Catecholamine	N1-L0	GA-	0096
CV	心不全	AGTR1/AGTR1A/AGTR1B/AT2R1/AT2R1B	Type-1 angiotensin II receptor, AT1	Angiotensin II	N1-L2(22)	GA-	0099
CV	心弁膜症	HTR2B	5-hydroxytryptamine receptor 2B	5-hydroxytryptamine (serotonin)	N1-L2(21-31)	GA-	0058
CV	低ナトリウム血症を伴う心不全	AVPR2	Vasopressin V2 receptor	Arginine vasopressin	N1-L0	GA-	0053

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
CV	脳卒中	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
CV	脳卒中	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonoyl ethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
CV	脳卒中	PAR1	Protease-activated receptor-1	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0069
CV	敗血症	EDG3/S1P3	Sphingosine-1-phosphate receptor 3	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0030
CV	敗血症	AVPR1A	Vasopressin V1a receptor Antidiuretic hormone receptor 1a	Arginine vasopressin	N2-L0	GA-	0051
CV	敗血症, 全身性炎症	ADGRE2/EMR2	Adhesion G protein-coupled receptor E2 EGF-like module receptor 2	Chondroitin sulfate	N8-L0	GD-	0155
CV	肺高血圧症	EDNRA/ETA/ETRA	Endothelin-1 receptor Endothelin receptor type A, ETA-R	Endothelin-1	N2-L1(21)	GA-	0101
CV	不整脈	ADRB1/ADRB1R / B1AR	Beta-1 adrenergic receptor Beta-1 adrenoreceptor	Catecholamine	N1-L0	GA-	0096
GI	肝疾患, 肝硬変	AVPR2	Vasopressin V2 receptor	Arginine vasopressin	N1-L0	GA-	0053
GI	肝虚血による再かん流障害	GPR31	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid receptor	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid (12HETE)	N1-L1(21)	GA-	0011
GI	肝硬変	ADGRE2/EMR2	Adhesion G protein-coupled receptor E2 EGF-like module receptor 2	Chondroitin sulfate	N8-L0	GD-	0155
GI	肝硬変	ADGRF1/GPR110 / PGR19	Adhesion G-protein coupled receptor F1 G protein-coupled receptor 110	Orphan	N17-L2(22)	GD-	0170

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
GI	肝疾患	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
GI	肝疾患	BLT1/GPR16/P2RY7	Leukotriene B4 receptor 1 P2Y7	Leukotriene B4, extracellular ATP > UTP and ADP	N1-L1(21)	GA-	0033
GI	肝疾患 肝硬変	GPCR19/TGR5/GPBAR	G-protein coupled bile acid receptor 1 G-protein coupled receptor GPCR19	Bile acid	N1-L2(11-21)	GA-	0009
ID	アジソン病	GPR174	Probable G-protein coupled receptor 174	Prines	N1-L1(21)	GA-	0025
ID	炎症	GPR32	Probable G-protein coupled receptor 32	Orphan	N1-L1(21)	GA-	0137
ID	クローン病	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
ID	クローン病	PAR2	Protease-activated receptor-2	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0070
ID	クローン病	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-	0131
ID	クローン病	CCR9/GPR28	C-C chemokine receptor type 9 G-protein coupled receptor 28	Chemokine SCYA25/TECK	N1-L0	GA-	0084
ID	シェーングレ症候群	CHRM3	Muscarinic acetylcholine receptor M3	Muscarine, acetylcholine	N5-L0	GA-	0046
ID	自己免疫疾患	GPR83/GPR72/KIAA1540	Probable G-protein coupled receptor 83 G-protein coupled receptor 72	Orphan	N2-L1(11)	GA-	0138
ID	バセドウ病	GPR174	Probable G-protein coupled receptor 174	Prines	N1-L1(21)	GA-	0025
ID	バセドウ病	CHRM2	Muscarinic acetylcholine receptor M2	Muscarine, acetylcholine	N4-L0	GA-	0045

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
ID	バセドウ病（甲状腺眼症）	TSHR	Thyroid stimulating hormone receptor Thyrotropin receptor	Thyroid-stimulating hormone (TSH) or thyrotropin.	N6-L0	GB-	0068
ID	リウマチ様関節炎	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
ID	リウマチ様関節炎	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-	0037
ID	リウマチ様関節炎	PAR2	Protease-activated receptor-2	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0070
ID	リウマチ様関節炎	PAR4	Protease-activated receptor-4	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L0	GA-	0072
ID	リウマチ様関節炎	C5AR1/C5AR/C5R1	C5a anaphylatoxin chemotactic receptor 1, C5a-R	C5a	N1-L0	GA-	0087
ID	リウマチ様関節炎	CCRL2	C-C chemokine receptor-like 2	CCL19 and chemerin/RARRES2	N1-L0	GA-	0139
ID	炎症性疾患	CNR2/CB2A/CB2B	Cannabinoid receptor 2 CB2	Endocannabinoid 2-arachidonoylglycerol	N1-L0	GA-	0027
ID	炎症性腸疾患	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
ID	炎症性腸疾患	GPR35	G-protein coupled receptor 35 kynurenic acid receptor	Kynurenic acid	N1-L0	GA-	0012
ID	炎症性腸疾患	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-	0028
ID	炎症性腸疾患	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-	0066
ID	炎症性腸疾患	PAR2	Protease-activated receptor-2	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0070
ID	炎症性腸疾患	CCR9/GPR28	C-C chemokine receptor type 9 G-protein coupled receptor 28	Chemokine SCYA25/TECK	N1-L0	GA-	0084

疾患領域	対象疾患	ターゲット分子				Reference no.
		遺伝子名	名称	リガンド	糖鎖修飾	
ID	炎症性腸疾患	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-0131
ID	炎症性腸疾患	GPR68/OGR1	Ovarian cancer G-protein coupled receptor 1	Proton	N2-L0	GA-0196
ID	乾癬	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-0028
ID	乾癬	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-0037
ID	関節炎	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-0028
ID	関節炎	BLT1/GPR16/P2RY7	Leukotriene B4 receptor 1 Chemoattractant receptor-like 1 P2Y7	Leukotriene B4, extracellular ATP > UTP and ADP	N1-L1(21)	GA-0033
ID	関節炎	BLT2	Leukotriene B4 receptor 2	Leukotriene B4	N1-L0	GA-0034
ID	関節炎	CD97	CD97 antigen	Orphan	N9-L0	GD-0153
ID	自己免疫性多腺性内分泌不全症	CASR/GPRC2A/P CAR1	Extracellular calcium-sensing receptor, CaR, CaSR Parathyroid cell calcium-sensing receptor 1, PCaR1	Calcium	N11-L0	GC-0185
ID	線維症	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-0131
ID	全身性エリテマトーデス	HTR4	5-hydroxytryptamine receptor 4, 5-HT4, Serotonin receptor 4	5-hydroxytryptamine (serotonin)	N1-L1(21)	GA-0102
ID	全身性エリテマトーデス	CXCR5/BLR1/MDR15	C-X-C chemokine receptor type 5	B-lymphocyte chemoattractant	N1-L1(21)	GA-0086
ID	潰瘍性大腸炎	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-0066
ID	潰瘍性大腸炎	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-0131
ID	潰瘍性大腸炎, 炎症性腸疾患	CCR5/CMKBR5	C-C chemokine receptor type 5	CC-chemokines	N4(O4)L1(31)	GA-0083

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Inf	EBウイルス感染症	GPR183/EBI2	G-protein coupled receptor 183 Epstein-Barr virus-induced G-protein coupled receptor 2	Oxysterol 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC)	N1-L0	GA-	0008
Inf	HIV, 移植片対宿主病	CCR5/CMKBR5	C-C chemokine receptor type 5	CC-chemokines	N4(O4)L1(31)	GA-	0083
K	腎線維症	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-	0037
K	糸球体腎炎 慢性腎疾患	PAR1	Protease-activated receptor-1	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N3-L2(22)	GA-	0069
K	腎疾患	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-	0028
K	腎疾患 腸管内菌叢	GPR43/FFA2	Free fatty acid receptor-2	Short chain fatty acids	N0-L2(22)	GA-	0016
K	糖尿病性腎症	AVPR2	Vasopressin V2 receptor	Arginine vasopressin	N1-L0	GA-	0053
K	慢性腎疾患	EDG5/S1P2	Sphingosine-1-phosphate receptor 2	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0029
K	慢性腎疾患	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-	0037
K	慢性腎疾患	AVPR2	Vasopressin V2 receptor	Arginine vasopressin	N2-L0	GA-	0053
K	慢性腎疾患	EDNRB/ETRB	Endothelin receptor type B, ETB-R Endothelin receptor non-selective type	Endothelin	N1-L0	GA-	0141
K	慢性腎疾患	CASR/GPRC2A/P CAR1	Extracellular calcium-sensing receptor, CaR, CaSR Parathyroid cell calcium-sensing receptor 1, PCaR1	Calcium	N11-L0	GC-	0185
K	慢性腎疾患 (慢性アシドーシス)	GPR4	G-protein coupled receptor 4 G-protein coupled receptor 19	Proton	N1-L1(21)	GA-	0043

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
M	2型糖尿病	GPR18	N-arachidonyl glycine receptor	Endocannabinoid, N-arachidonyl glycine	N1-L0	GA-	0007
M	2型糖尿病	EDG5/S1P2	Sphingosine-1-phosphate receptor 2	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0029
M	2型糖尿病	GHSR	Growth hormone secretagogue receptor type 1	Ghrelin, a small peptide with 28 amino acids	N3-L0	GA-	0065
M	2型糖尿病	T1R3	Taste receptor type 1 member 3	Umami taste stimulus	N8-L0	GC-	0067
M	2型糖尿病	PAR4	Protease-activated receptor-4	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L0	GA-	0072
M	2型糖尿病	GPR146	Probable G-protein coupled receptor 146	Orphan	N1-L0	GA-	0077
M	2型糖尿病	GC-GR	Glucagon receptor, GL-R	Glucagon	N4-L0	GB-	0091
M	2型糖尿病	GLP1R	Glucagon-like peptide 1 receptor	Glucagon-like peptide 1 (GLP-1)	N3-L0	GB-	0092
M	2型糖尿病	GIPR	Gastric inhibitory polypeptide receptor Glucose-dependent insulinotropic polypeptide receptor	Gastric inhibitory polypeptide (GIP)	N2-L0	GB-	0093
M	2型糖尿病	ADRA1A/ADRA1C	Alpha-1A adrenergic receptor Alpha-1A adrenoreceptor Alpha-1C adrenergic receptor	Catecholamine	N3-L0	GA-	0094
M	2型糖尿病	GPR21	Probable G-protein coupled receptor 21	Orphan	N2-L0	GA-	0106
M	2型糖尿病	SSTR1	Somatostatin receptor type 1 SRIF-2	Somatostatin	N3-L0	GA-	0186
M	2型糖尿病	SSTR2	Somatostatin receptor type 2 SRIF-1	Somatostatin-14 and -28	N4-L0	GA-	0187

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
M	2型糖尿病	GPCR19/TGR5/GPBAR	G-protein coupled bile acid receptor 1 G-protein coupled receptor GPCR19	Bile acid	N1-L2(11-21)	GA-	0009
M	2型糖尿病	GPR55	G-protein coupled receptor 55	L-a-lysophosphatidylinositol	N1-L1(21)	GA-	0013
M	2型糖尿病	GPR40/FFA1	Free fatty acid receptor-1	Saturated and unsaturated fatty acids	N0-L1(21)	GA-	0015
M	2型糖尿病	GPR43/FFA2	Free fatty acid receptor-2	Short chain fatty acids	N0-L2(22)	GA-	0016
M	2型糖尿病	PAR1	Protease-activated receptor-1	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N3-L2(22)	GA-	0069
M	2型糖尿病	PAR2	Protease-activated receptor-2	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0070
M	2型糖尿病	GPR56/ADGRG1	Adhesion G-protein coupled receptor G1	Collagen III/COL3A1	N7-L0	GD-	0145
M	2型糖尿病	GPRC6A	G-protein coupled receptor family C group 6 member A, GPRC33	Basic amino acids, osteocalcin, testosterone	N3-L1(21)	GC-	0184
M	2型糖尿病 肥満, 食欲障害	GPR120/FFR4	Free fatty acid receptor-4	Saturated and unsaturated fatty acids	N1-L0	GA-	0018
M	2型糖尿病に関連した肥満	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-	0066
M	糖尿病	CASR/GPRC2A/PCAR1	Extracellular calcium-sensing receptor, CaR, CaSR Parathyroid cell calcium-sensing receptor 1, PCaR1	Calcium	N11-L0	GC-	0185
M	メタボリック症候群	GPRC6A	G-protein coupled receptor family C group 6 member A, GPRC33	Basic amino acids, osteocalcin, testosterone	N3-L1(21)	GC-	0184
M	高脂血症	T1R3	Taste receptor type 1 member 3	Umami taste stimulus	N8-L0	GC-	0067

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
M	食欲障害 肥満	T1R3	Taste receptor type 1 member 3	Umami taste stimulus	N8-L0	GC-	0067
M	糖尿病	GPR27/SREB1	Probable G-protein coupled receptor 27 Super conserved receptor expressed in brain 1	Orphan	N1-L0	GA-	0116
M	肥満	GPR3/ACCA	G-protein coupled receptor 3	Orphan	N1-L0	GA-	0006
M	肥満	GPR18	N-arachidonyl glycine receptor	Endocannabinoid, N-arachidonyl glycine	N1-L0	GA-	0007
M	肥満	GPR12	G-protein coupled receptor 12	Orphan	N2-L0	GA-	0021
M	肥満	GPR24/MCHR1	Melanin-concentrating hormone receptor 1	Melanin-concentrating hormone	N3-L0	GA-	0054
M	肥満	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
M	肥満	GPR7	Neuropeptides B/W receptor type 1 G-protein coupled receptor 7	Neuropeptides B and W Interacts specifically with a number of opioid ligands	N3-L0	GA-	0059
M	肥満	GHSR	Growth hormone secretagogue receptor type 1	Ghrelin, a small peptide with 28 amino acids	N3-L0	GA-	0065
M	肥満	TSHR	Thyroid stimulating hormone receptor Thyrotropin receptor	Thyroid-stimulating hormone (TSH) or thyrotropin.	N6-L0	GB-	0068
M	肥満	PAR4	Protease-activated receptor-4	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L0	GA-	0072
M	肥満	GLP1R	Glucagon-like peptide 1 receptor	Glucagon-like peptide 1 (GLP-1)	N3-L0	GB-	0092
M	肥満	GIPR	Gastric inhibitory polypeptide receptor Glucose-dependent insulinotropic polypeptide receptor	Gastric inhibitory polypeptide (GIP)	N2-L0	GB-	0093

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
M	肥満	ADRB3/ADRB3R/B3AR	Beta-3 adrenergic receptor Beta-3 adrenoreceptor	Catecholamine	N2L0	GA-	0098
M	肥満	GPR82	Probable G-protein coupled receptor 82	Orphan	N2-L0	GA-	0112
M	肥満	GPR97/PGR26	Adhesion G protein-coupled receptor G3 G-protein coupled receptor 97	Orphan	N3-L1(21)	GD-	0146
M	肥満	GPCR19/TGR5/GPBAR	G-protein coupled bile acid receptor 1 G-protein coupled receptor GPCR19	Bile acid	N1-L2(11-21)	GA-	0009
M	肥満	GPR55	G-protein coupled receptor 55	L-a-lysophosphatidylinositol	N1-L1(21)	GA-	0013
M	肥満	GPR43/FFA2	Free fatty acid receptor-2	Short chain fatty acids	N0-L2(22)	GA-	0016
M	肥満	GPR41/FFR3	Free fatty acid receptor-3	Short chain fatty acids	N0-L1(21)	GA-	0017
M	肥満	GPR23/LPAR4	Lysophosphatidic acid receptor 4	Lysophosphatidic acid (LPA)	N3-L1(21)	GA-	0022
M	肥満	GPR92/LPAR5	Lysophosphatidic acid receptor 5	Lysophosphatidic acid (LPA)	N2-L0	GA-	0023
M	肥満	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
M	肥満	PAR1	Protease-activated receptor-1	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N3-L2(22)	GA-	0069
Mis	woolly hair/ 減毛症	LPA6/P2Y5	Lysophosphatidic acid receptor 6 P2Y5	Lysophosphatidic acid (LPA) oleoyl-L-alpha-LPA	N1-L0	GA-	0005
Mis	好酸球性疾患	ADGRE1/EMR1/TM7LN3	Adhesion G protein-coupled receptor E1 EGF-like module-containing mucin-like hormone receptor-like 1	Orphan	N12-L0	GD-	0154

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Mis	ホットフラッシュ	CALCRL/CGRPR	Calcitonin gene-related peptide type 1 receptor, CGRP type 1 receptor Calcitonin receptor-like receptor	Calcitonin-gene-related peptide (CGRP), Adrenomedullin together with RAMP3	N3-L0	GB-	0089
Mis	骨粗しょう症	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
Mis	骨粗しょう症	GPR183/EBI2	G-protein coupled receptor 183 Epstein-Barr virus-induced G-protein coupled receptor 2	Oxysterol 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC)	N1-L0	GA-	0008
Mis	骨粗しょう症	GPER1/CEPR/ CMKRL2/DRY12/ GPER/GPR30	G-protein coupled estrogen receptor 1 G-protein coupled receptor 30	17-beta-estradiol (E2)	N3-L0	GA-	0010
Mis	骨粗しょう症	GPR55	G-protein coupled receptor 55	L-a-lysophosphatidylinositol	N1-L1(21)	GA-	0013
Mis	骨粗しょう症	GPR40/FFA1	Free fatty acid receptor-1	Saturated and unsaturated fatty acids	N0-L1(21)	GA-	0015
Mis	骨粗しょう症	GPR120/FFR4	Free fatty acid receptor-4	Saturated and unsaturated fatty acids	N1-L0	GA-	0018
Mis	骨粗しょう症	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Mis	骨粗しょう症	CNR2/CB2A/CB2 B	Cannabinoid receptor 2 CB2	Endocannabinoid 2-arachidonoylglycerol	N1-L0	GA-	0027
Mis	骨粗しょう症	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-	0028
Mis	骨粗しょう症	BLT2	Leukotriene B4 receptor 2	Leukotriene B4	N1-L0	GA-	0034
Mis	骨粗しょう症	TSHR	Thyroid stimulating hormone receptor Thyrotropin receptor	Thyroid-stimulating hormone (TSH) or thyrotropin.	N6-L0	GB-	0068
Mis	骨粗しょう症	CALCR	Calcitonin receptor	Calcitonin	N4-L0	GB-	0088

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Mis	骨粗しょう症	GPR65/TDAG8	Psychosine receptor G-protein coupled receptor 65 T-cell death-associated gene 8 protein	Psychosine	N1-L2(11-21)	GA-	0195
Mis	骨粗しょう症	PTHrP/PTHR1	Parathyroid hormone/parathyroid hormone-related peptide receptor PTH/PTHrP type I receptor PTH1 receptor	Parathyroid hormone and parathyroid hormone-related peptide	N4-L0	GB-	0198
Mis	骨粗しょう症, 骨疾患	LGR4/GPR48	Leucine-rich repeat-containing G-protein coupled receptor 4 G-protein coupled receptor 48	R-spondins	N5-L0	GA-	0121
Mis	歯周炎	ADRB1/ADRB1R / B1AR	Beta-1 adrenergic receptor Beta-1 adrenoreceptor	Catecholamine	N1-L0	GA-	0096
Mis	歯周炎	GPR126	Adhesion G-protein coupled receptor G6 G-protein coupled receptor 126	Orphan, activated by type IV collagen	N23-L0	GD-	0149
Mis	線維症, 脂肪変性	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Mis	線維症, 脂肪変性	BLT1/GPR16/P2RY7	Leukotriene B4 receptor 1 P2Y7	Leukotriene B4, extracellular ATP > UTP and ADP	N1-L1(21)	GA-	0033
Mis	創傷	GPR23/LPAR4	Lysophosphatidic acid receptor 4	Lysophosphatidic acid (LPA)	N3-L1(21)	GA-	0022
Mis	創傷	GPR92/LPAR5	Lysophosphatidic acid receptor 5	Lysophosphatidic acid (LPA)	N2-L0	GA-	0023
Mis	椎間板変性	GPR68/OGR1	Ovarian cancer G-protein coupled receptor 1	Proton	N2-L0	GA-	0196
Mis	特発性脊柱側彎症	GPR126	Adhesion G-protein coupled receptor G6 G-protein coupled receptor 126	Orphan, activated by type IV collagen	N23-L0	GD-	0149

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	アルコール使用障害	GRM2/GPRC1B/ MGLUR2	Metabotropic glutamate receptor 2	Glutamate	N5-L0	GC-	0176
Ns	アルコール乱用	GRM1/GPRC1A/ MGLUR1	Metabotropic glutamate receptor 1	Glutamate	N4-L0	GC-	0175
Ns	アルツハイマー病	GPR3/ACCA	G-protein coupled receptor 3	Orphan	N1-L0	GA-	0006
Ns	アルツハイマー病	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014
Ns	アルツハイマー病	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N- arachidonylethanolamide and 2- arachidonoylglycerol	N3-L0	GA-	0026
Ns	アルツハイマー病	CHRM1	Muscarinic acetylcholine receptor M1	Muscarine, acetylcholine	N2-L0	GA-	0044
Ns	アルツハイマー病	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-	0066
Ns	アルツハイマー病	GPR103 QRFP	Pyroglutamylated RFamide peptide receptor G-protein coupled receptor 103	Orexigenic neuropeptide QRFP	N1-L0	GA-	0080
Ns	アルツハイマー病	ADRA1A/ADRA1 C	Alpha-1A adrenergic receptor Alpha-1A adrenoreceptor Alpha-1C adrenergic receptor	Catecholamine	N3-L0	GA-	0094
Ns	アルツハイマー病	ADRB2/ADRB2R / B2AR	Beta-2 adrenergic receptor Beta-2 adrenoreceptor	Catecholamine	N2-L1(21)	GA-	0097
Ns	アルツハイマー病	GRM5/GPRC1E/ MGLUR5	Metabotropic glutamate receptor 5	Glutamate	N5-L1(21)	GC-	0179
Ns	アルツハイマー病 認知疾患	GPR84	G-protein coupled receptor 84 Inflammation-related G-protein coupled receptor EX33	Medium-chain free fatty acid	N2-L0	GA-	0041

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	運藤失調	GRM3/GPRC1C/ MGLUR3	Metabotropic glutamate receptor 3	Glutamate	N4-L0	GC-	0177
Ns	運動障害	GPR12	G-protein coupled receptor 12	Orphan	N2-L0	GA-	0021
Ns	学習記憶障害	Oprd1/Opioid δ	Delta-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N2-L0	GA-	0063
Ns	下垂体茎断裂症候群	GPR161	G-protein coupled receptor 161	Orphan	N2-L0	GA-	0120
Ns	急性疼痛	BDKRB2	B2 bradykinin receptor BK-2 receptor	Bradykinin	N2-L1(21)	GA-	0074
Ns	コカイン依存症	GRM2/GPRC1B/ MGLUR2	Metabotropic glutamate receptor 2	Glutamate	N5-L0	GC-	0176
Ns	コカイン依存症	GRM7/GPRC1G/ MGLUR7	Metabotropic glutamate receptor 7	Glutamate	N4-L0	GC-	0181
Ns	神経因性疼痛, 炎症性疼痛	PAR4	Protease-activated receptor-4	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L0	GA-	0072
Ns	神経変性疾患 アルツハイマー病	BAI1/ADGRB1	Adhesion G protein-coupled receptor B1 Brain-specific angiogenesis inhibitor 1	Phosphatidylserine	N7-L0	GD-	0142
Ns	神経精神疾患	GRM1/GPRC1A/ MGLUR1	Metabotropic glutamate receptor 1	Glutamate	N4-L0	GC-	0175
Ns	神経精神疾患	GRM7/GPRC1G/ MGLUR7	Metabotropic glutamate receptor 7	Glutamate	N4-L0	GC-	0181
Ns	脊髄外傷	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014
Ns	先天性小脳性運動失調, 摂食障害	LGR4/GPR48	Leucine-rich repeat-containing G-protein coupled receptor 4 G-protein coupled receptor 48	R-spondins	N5-L0	GA-	0121

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	てんかん	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Ns	てんかん	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-	0066
Ns	疼痛	GRM3/GPRC1C/ MGLUR3	Metabotropic glutamate receptor 3	Glutamate	N4-L0	GC-	0177
Ns	糖尿病性疼痛, 神経障害, 炎症性疼痛	BDKRB1	B1 bradykinin receptor BK-1 receptor	Bradykinin	N1-L1(21)	GA-	0073
Ns	認知障害	GPR12	G-protein coupled receptor 12	Orphan	N2-L0	GA-	0021
Ns	脳および脊髄の先天性異常	GPR161	G-protein coupled receptor 161	Orphan	N2-L0	GA-	0120
Ns	脳血管関門破壊による中枢 神経系の疾患	ADGRA2/GPR12 4/ KIAA1531/TEM5	Adhesion G protein-coupled receptor A2 G-protein coupled receptor 124	Orphan	N7-L0	GD-	0163
Ns	パーキンソン病	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014
Ns	パーキンソン病	GPR6	G-protein coupled receptor 6	Orphan	N3-L0	GA-	0020
Ns	パーキンソン病	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Ns	パーキンソン病	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ns	パーキンソン病	HTR2A	5-hydroxytryptamine receptor 2A	5-hydroxytryptamine (serotonin)	N5-L0	GA-	0057
Ns	パーキンソン病	GPR37	Prosaposin receptor GPR37	The neuroprotective and glioprotective factor prosaposin	N2-L1(21)	GA-	0075
Ns	パーキンソン病	GPR52	G-protein coupled receptor 52	Orphan	N3-L0	GA-	0126
Ns	パーキンソン病	GPR139	Probable G-protein coupled receptor 139	Orphan	N1-L0	GA-	0128

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	パーキンソン病	GRM3/GPRC1C/ MGLUR3	Metabotropic glutamate receptor 3	Glutamate	N4-L0	GC-	0177
Ns	パーキンソン病	GRM4/GPRC1D/ MGLUR4	Metabotropic glutamate receptor 4	Glutamate	N5-L0	GC-	0178
Ns	パーキンソン病	GRM8/GPRC1H/ MGLUR8	Metabotropic glutamate receptor 8	Glutamate	N5-L0	GC-	0182
Ns	パーキンソン病	ADOA2A	Adenosine receptor A2a	Adenosine	N0-L1(21)	GA-	0190
Ns	ハンチントン病	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014
Ns	ハンチントン病	GRM5/GPRC1E/ MGLUR5	Metabotropic glutamate receptor 5	Glutamate	N5-L1(21)	GC-	0179
Ns	プラダー・ウィリー症候群	MCHR2/GPR145	G-protein coupled receptor 145 Melanin-concentrating hormone receptor 2	Melanin-concentrating hormone	N2-L0	GA-	0055
Ns	依存症	OPRK1/Opioid κ	Kappa-type opioid receptor	Endogenous opioids such as beta- endorphin and endomorphin	N2-L0	GA-	0062
Ns	運動失調	GRM1/GPRC1A/ MGLUR1	Metabotropic glutamate receptor 1	Glutamate	N4-L0	GC-	0175
Ns	円形脱毛症	MCHR2/GPR145	G-protein coupled receptor 145 Melanin-concentrating hormone receptor 2	Melanin-concentrating hormone	N2-L0	GA-	0055
Ns	外傷性脳損傷	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014
Ns	巨人症	GPR101	Probable G-protein coupled receptor 101	Orphan	N2-L0	GA-	0113
Ns	虚血脳損傷	CCRL2	C-C chemokine receptor-like 2	CCL19 and chemerin/RARRES2	N1-L0	GA-	0139

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	強迫神経症	GPR63	Probable G-protein coupled receptor 63	Orphan	N3-L0	GA-	0004
Ns	局所疼痛症候群	ADRB2/ADRB2R / B2AR	Beta-2 adrenergic receptor Beta-2 adrenoreceptor	Catecholamine	N2-L1(21)	GA-	0097
Ns	自閉症	GPR63	Probable G-protein coupled receptor 63	Orphan	N3-L0	GA-	0004
Ns	自閉症	AVPR2	Vasopressin V2 receptor	Arginine vasopressin	N1-L0	GA-	0053
Ns	自閉症	GPR37	Prosaposin receptor GPR37	The neuroprotective and glioprotective factor prosaposin	N2-L1(21)	GA-	0075
Ns	自閉症スペクトラム障害	GRM5/GPRC1E/ MGLUR5	Metabotropic glutamate receptor 5	Glutamate	N5-L1(21)	GC-	0179
Ns	心的外傷後ストレス障害	GRM8/GPRC1H/ MGLUR8	Metabotropic glutamate receptor 8	Glutamate	N5-L0	GC-	0182
Ns	神経因性疼痛	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
Ns	神経因性疼痛	GPR3/ACCA	G-protein coupled receptor 3	Orphan	N1-L0	GA-	0006
Ns	神経因性疼痛	GPR92/LPAR5	Lysophosphatidic acid receptor 5	Lysophosphatidic acid (LPA)	N2-L0	GA-	0023
Ns	神経因性疼痛	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-	0037
Ns	神経因性疼痛	PAR2	Protease-activated receptor-2	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0070
Ns	神経変性疾患, アルツハイマー病	CNR2/CB2A/CB2 B	Cannabinoid receptor 2 CB2	Endocannabinoid 2-arachidonoylglycerol	N1-L0	GA-	0027
Ns	睡眠障害	GPR176	G-protein coupled receptor 176 HB-954	Orphan, involved in normal circadian rhythm behavior	N4-L0	GA-	0115
Ns	精神疾患	GPR6	G-protein coupled receptor 6	Orphan	N3-L0	GA-	0020
Ns	精神疾患	HTR2A	5-hydroxytryptamine receptor 2A	5-hydroxytryptamine (serotonin)	N5-L0	GA-	0057
Ns	精神疾患, 統合失調症	GPR151/PGR7	Probable G-protein coupled receptor 151	Orphan	N2-L0	GA-	0129

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	精神障害	GPR52	G-protein coupled receptor 52	Orphan	N3-L0	GA-	0126
Ns	精神障害	BAI3/ADGRB3	Adhesion G protein-coupled receptor B3 Brain-specific angiogenesis inhibitor 3	Orphan	N13-L11(11)	GD-	0144
Ns	脆弱X症候群	GRM5/GPRC1E/MGLUR5	Metabotropic glutamate receptor 5	Glutamate	N5-L1(21)	GC-	0179
Ns	摂食障害	GPR61	Probable G-protein coupled receptor 61	Biogenic amine	N1-L0	GA-	0111
Ns	摂食障害	GPR171	Probable G-protein coupled receptor 171	Orphan	N1-L0	GA-	0114
Ns	摂食障害	GPR83/GPR72/KIAA1540	Probable G-protein coupled receptor 83 G-protein coupled receptor 72	Orphan	N2-L1(11)	GA-	0138
Ns	双極性気分障害	MCHR2/GPR145	G-protein coupled receptor 145 Melanin-concentrating hormone receptor 2	Melanin-concentrating hormone	N2-L0	GA-	0055
Ns	掻痒	OPRK1/Opioid κ	Kappa-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N2-L0	GA-	0062
Ns	多発性硬化症	GPER1/CEPR/CMKRL2/DRY12/GPER/GPR30	G-protein coupled estrogen receptor 1 G-protein coupled receptor 30	17-beta-estradiol (E2)	N3-L0	GA-	0010
Ns	多発性硬化症	GPR55	G-protein coupled receptor 55	L-a-lysophosphatidylinositol	N1-L1(21)	GA-	0013
Ns	多発性硬化症	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	多発性硬化症	GPR17	Uracil nucleotide/cysteinyl leukotriene receptor, G-protein coupled receptor 17	Uracil nucleotides and cysteinyl leukotrienes (CysLTs)	N1-L2(21-31)	GA-	0014
Ns	多発性硬化症	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Ns	多発性硬化症	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-	0028
Ns	多発性硬化症	GRM4/GPRC1D/MGLUR4	Metabotropic glutamate receptor 4	Glutamate	N5-L0	GC-	0178
Ns	多発性硬化症	EDG3/S1P3	Sphingosine-1-phosphate receptor 3	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0030
Ns	多発性硬化症	EDG8/S1P5	Sphingosine-1-phosphate receptor 5	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0032
Ns	多発性硬化症	GRM8/GPRC1H/MGLUR8	Metabotropic glutamate receptor 8	Glutamate	N5-L0	GC-	0182
Ns	多発性硬化症	GPR132/GA-2	Probable G-protein coupled receptor 132	Proton	N2-L0	GA-	0194
Ns	注意欠陥多動障害	TSHR	Thyroid stimulating hormone receptor Thyrotropin receptor	Thyroid-stimulating hormone (TSH) or thyrotropin.	N6-L0	GB-	0068
Ns	統合失調症	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ns	統合失調症	GPR52	G-protein coupled receptor 52	Orphan	N3-L0	GA-	0126
Ns	統合失調症	GPR85/SREB2	Probable G-protein coupled receptor 85	Orphan	N1-L2(11-21)	GA-	0134
Ns	統合失調症	GRM2/GPRC1B/MGLUR2	Metabotropic glutamate receptor 2	Glutamate	N5-L0	GC-	0176

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	認知障害 (加齢関連認知行動低下)	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Ns	認知疾患	GPR158/KIAA1136	Probable G-protein coupled receptor 158	Orphan	N5-L0	GC-	0079
Ns	発作	GPR37L1 (ETBR-LP-2)	Prosaposin receptor GPR37L1 Endothelin B receptor-like protein 2	The neuroprotective and glioprotective factor prosaposin	N6(N105)-L0	GA-	0076
Ns	不安神経症	GPR31	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid receptor	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid (12HETE)	N1-L1(21)	GA-	0011
Ns	不安神経症	GPR24/MCHR1	Melanin-concentrating hormone receptor 1	Melanin-concentrating hormone	N3-L0	GA-	0054
Ns	不安神経症	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ns	不安神経症	OPRK1/Opioid κ	Kappa-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N2-L0	GA-	0062
Ns	不安神経症	GPR171	Probable G-protein coupled receptor 171	Orphan	N1-L0	GA-	0114
Ns	不安神経症	GRM4/GPRC1D/MGLUR4	Metabotropic glutamate receptor 4	Glutamate	N5-L0	GC-	0178
Ns	不安神経症	GRM8/GPRC1H/MGLUR8	Metabotropic glutamate receptor 8	Glutamate	N5-L0	GC-	0182
Ns	不眠症	HTR2A	5-hydroxytryptamine receptor 2A	5-hydroxytryptamine (serotonin)	N5-L0	GA-	0057
Ns	片頭痛	CGRPR/CALCRL	Calcitonin gene-related peptide type 1 receptor, CGRP type 1 receptor	Calcitonin-gene-related peptide (CGRP), Adrenomedullin together with RAMP3	N3-L0	GB-	0089
Ns	傍腫瘍性辺縁系脳炎 seizures	GA-BBR1/GPRC3A	Gamma-aminobutyric acid type B receptor subunit 1, GA-BA-B receptor 1	GABA	N8-L0	GC-	0105

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	勃起機能不全	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ns	薬物依存症	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ns	鬱病	GPR24/MCHR1	Melanin-concentrating hormone receptor 1	Melanin-concentrating hormone	N3-L0	GA-	0054
Ns	鬱病	Oprd1/Opioid δ	Delta-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N2-L0	GA-	0063
Ns	鬱病	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-	0066
Ns	鬱病	BAI2/ADGRB2	Adhesion G protein-coupled receptor B2 Brain-specific angiogenesis inhibitor 2	Orphan	N8-L0	GD-	0143
Ns	鬱病	GRM2/GPRC1B/MGLUR2	Metabotropic glutamate receptor 2	Glutamate	N5-L0	GC-	0176
Ns	鬱病	GRM3/GPRC1C/MGLUR3	Metabotropic glutamate receptor 3	Glutamate	N4-L0	GC-	0177
Ns	鬱病, 不安神経症,	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ns	疼痛	GPR35	G-protein coupled receptor 35 kynurenic acid receptor	Kynurenic acid	N1-L0	GA-	0012
Ns	疼痛	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Ns	疼痛	OPRM1/Opioid μ	Mu-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N5-L0	GA-	0061
Ns	疼痛	OPRK1/Opioid κ	Kappa-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N2-L0	GA-	0062
Ns	疼痛	Oprd1/Opioid δ	Delta-type opioid receptor	Endogenous opioids such as beta-endorphin and endomorphin	N2-L0	GA-	0063

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Ns	疼痛	CALCRL/CGRPR	Calcitonin gene-related peptide type 1 receptor, CGRP type 1 receptor Calcitonin receptor-like receptor	Calcitonin-gene-related peptide (CGRP), Adrenomedullin together with RAMP3	N3-L0	GB-	0089
Ns	疼痛	GRM1/GPRC1A/MGLUR1	Metabotropic glutamate receptor 1	Glutamate	N4-L0	GC-	0175
Ns	疼痛	GRM8/GPRC1H/MGLUR8	Metabotropic glutamate receptor 8	Glutamate	N5-L0	GC-	0182
Ns	疼痛	GA-BBR1/GPRC3A	Gamma-aminobutyric acid type B receptor subunit 1, GA-BA-B receptor 1	GABA	N8-L0	GC-	0105
Ob	不妊	EDG7/LPA3	Lysophosphatidic acid receptor 3 LPA3	Lysophosphatidic acid (LPA)	N1-L1(21)	GA-	0039
Ob	排卵機能不全	GPR173/SREB3	Probable G-protein coupled receptor 173	Orphan	N1-L1(21)	GA-	0135
Onc	VEGF誘発腫瘍血管新生, ゲフィチニブ抵抗性非小細胞肺癌	ADGRA2/GPR124/ KIAA1531/TEM5	Adhesion G protein-coupled receptor A2 G-protein coupled receptor 124	Orphan	N7-L0	GD-	0163
Onc	癌骨由来疼痛	GPR65/TDAG8	Psychosine receptor G-protein coupled receptor 65 T-cell death-associated gene 8 protein	Psychosine	N1-L2(11-21)	GA-	0195
Onc	固形癌	DRD2	(D2) Dopamine receptor	Dopamine	N3-L0	GA-	0193
Onc	脳腫瘍	BAI3/ADGRB3	Adhesion G protein-coupled receptor B3 Brain-specific angiogenesis inhibitor 3	Orphan	N13-L11(11)	GD-	0144

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	膀胱癌, 肺癌, 大腸癌, 膵癌	GPR87/GPR95	G-protein coupled receptor 87	Lysophosphatidic acid (LPA)	N3-L0	GA-	0024
Onc	胃癌	GPR132/GA-2	Probable G-protein coupled receptor 132	Proton	N2-L0	GA-	0194
Onc	胃癌, 肝細胞癌	GPCR19/TGR5/GPBAR	G-protein coupled bile acid receptor 1 G-protein coupled receptor GPCR19	Bile acid	N1-L2(11-21)	GA-	0009
Onc	胃癌, 黒色腫, 癌幹細胞 (免疫療法)	GPR4	G-protein coupled receptor 4 G-protein coupled receptor 19	Proton	N1-L1(21)	GA-	0043
Onc	胃癌, 前立腺癌	GPR39	G-protein coupled receptor 39	Orphan, Zn ²⁺ acts as an agonist, obestatin	N0-L3(23)	GA-	0066
Onc	胃癌, 大腸癌	GPR34	Probable G-protein coupled receptor 34	Orphan	N3-L2(21-31)	GA-	0040
Onc	胃癌, 膵癌	GHSR	Growth hormone secretagogue receptor type 1	Ghrelin, a small peptide with 28 amino acids	N3-L0	GA-	0065
Onc	肝細胞癌	GPR99/GPR80/OXGR1	2-oxoglutarate receptor 1 Alpha-ketoglutarate receptor 1 G-protein coupled receptor 80 G-protein coupled receptor 99	Alpha-ketoglutarate	N2-L2(22)	GA-	0064
Onc	肝細胞癌, 胃癌	GPR37	Prosaposin receptor GPR37	The neuroprotective and glioprotective factor prosaposin	N2-L1(21)	GA-	0075
Onc	肝細胞癌	LPA6/P2Y5	Lysophosphatidic acid receptor 6 P2Y5	Lysophosphatidic acid (LPA) oleoyl-L-alpha-LPA	N1-L0	GA-	0005
Onc	肝細胞癌	EDG4/LPA4	Lysophosphatidic acid receptor 2	Lysophosphatidic acid (LPA)	N2-L0	GA-	0038
Onc	肝細胞癌、癌幹細胞	GPR87/GPR95	G-protein coupled receptor 87	Lysophosphatidic acid (LPA)	N3-L0	GA-	0024
Onc	癌	EDG6/S1P4	Sphingosine-1-phosphate receptor 4	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-	0031

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	癌	CCR9/GPR28	C-C chemokine receptor type 9 G-protein coupled receptor 28	Chemokine SCYA25/TECK	N1-L0	GA-	0084
Onc	癌	CXCR5/BLR1/MDR15	C-X-C chemokine receptor type 5	B-lymphocyte chemoattractant	N1-L1(21)	GA-	0086
Onc	癌	C5AR1/C5AR/C5R1	C5a anaphylatoxin chemotactic receptor 1, C5a-R	C5a	N1-L0	GA-	0087
Onc	癌	CALCR	Calcitonin receptor	Calcitonin	N4-L0	GB-	0088
Onc	癌	ADRA1A/ADRA1C	Alpha-1A adrenergic receptor Alpha-1A adrenoreceptor Alpha-1C adrenergic receptor	Catecholamine	N3-L0	GA-	0094
Onc	癌	EDNRB/ETRB	Endothelin receptor type B, ETB-R Endothelin receptor non-selective type	Endothelin	N1-L0	GA-	0141
Onc	癌	CD97	CD97 antigen	Orphan	N9-L0	GD-	0153
Onc	癌	GRM1/GPRC1A/MGLUR1	Metabotropic glutamate receptor 1	Glutamate	N4-L0	GC-	0175
Onc	癌	CASR/GPRC2A/PCAR1	Extracellular calcium-sensing receptor, CaR, CaSR Parathyroid cell calcium-sensing receptor 1, PCaR1	Calcium	N11-L0	GC-	0185
Onc	癌, 白血病	ADGRG1/GPR56/TM7LN4/TM7XN1/UNQ540/PRO1083	Adhesion G-protein coupled receptor G1 G-protein coupled receptor 56 Protein TM7XN1	Orphan	N7-L0	GD-	0145
Onc	癌幹細胞	DRD2	(D2) Dopamine receptor	Dopamine	N3-L0	GA-	0193

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	癌幹細胞, 大腸癌, 肝細胞癌, 食道腺癌	LGR5/GPR49/GPR67	Leucine-rich repeat-containing G-protein coupled receptor 5 G-protein coupled receptor 49 G-protein coupled receptor 67 G-protein coupled receptor HG38	R-spondins	N4-L1(31)	GA-	0122
Onc	黒色腫	GPR18	N-arachidonyl glycine receptor	Endocannabinoid, N-arachidonyl glycine	N1-L0	GA-	0007
Onc	黒色腫	GPR92/LPAR5	Lysophosphatidic acid receptor 5	Lysophosphatidic acid (LPA)	N2-L0	GA-	0023
Onc	黒色腫	GPR174	Probable G-protein coupled receptor 174	Prines	N1-L1(21)	GA-	0025
Onc	黒色腫	GPR19	Probable G-protein coupled receptor 19	Orphan	N2-L0	GA-	0117
Onc	黒色腫	GPR65/TDAG8	Psychosine receptor G-protein coupled receptor 65 T-cell death-associated gene 8 protein	Psychosine	N1-L2(11-21)	GA-	0195
Onc	骨髄腫 膠芽細胞腫 白血病	DRD2	(D2) Dopamine receptor	Dopamine	N3-L0	GA-	0193
Onc	神経芽細胞腫, 膠芽細胞腫	EDG5/S1P2	Sphingosine-1-phosphate receptor 2	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0029
Onc	神経膠腫	ADGRL4/ELTD1/ETL/UNQ202/PRO228	Adhesion G protein-coupled receptor L4	Orphan	N9-L0	GD-	0158
Onc	神経膠腫	ADGRF1/GPR110/PGR19	Adhesion G-protein coupled receptor F1 G protein-coupled receptor 110	Orphan	N17-L2(22)	GD-	0170

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	成人T細胞白血病, 末梢T細胞リンパ腫	CCR4/CMKBR4	C-C chemokine receptor type 4	CC-chemokines	N0-L2(22)	GA-	0082
Onc	前立腺癌	GPR158/KIAA1136	Probable G-protein coupled receptor 158	Orphan	N5-L0	GC-	0079
Onc	前立腺癌	GPRC6A	G-protein coupled receptor family C group 6 member A, GPRC33	Basic amino acids, osteocalcin, testosterone	N3-L1(21)	GC-	0184
Onc	前立腺癌 膵癌 卵巣	GPR68/OGR1	Ovarian cancer G-protein coupled receptor 1	Proton	N2-L0	GA-	0196
Onc	前立腺癌, 大腸癌	GPR31	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid receptor	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid (12HETE)	N1-L1(21)	GA-	0011
Onc	大腸癌, 前立腺癌, 皮膚	LGR4/GPR48	Leucine-rich repeat-containing G-protein coupled receptor 4 G-protein coupled receptor 48	R-spondins	N5-L0	GA-	0121
Onc	大腸癌, 乳癌, 前立腺癌, 肺癌	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N-arachidonylethanolamide and 2-arachidonoylglycerol	N3-L0	GA-	0026
Onc	大腸癌, 卵巣癌, 癌幹細胞 (免疫療法)	LGR6	Leucine-rich repeat-containing G-protein coupled receptor 6	R-spondins that potentiates the canonical Wnt signaling pathway	N2-L0	GA-	0140
Onc	大腸癌, 上皮性悪性腫瘍	ADGRF5/GPR116 / KIAA0758	Adhesion G protein-coupled receptor F5 G-protein coupled receptor 116	Orphan	N21-L0	GD-	0174
Onc	乳癌	CCR5/CMKBR5	C-C chemokine receptor type 5	CC-chemokines	N4(O4)L1(31)	GA-	0083
Onc	乳癌	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-	0131
Onc	乳癌	ADGRF5/GPR116 / KIAA0758	Adhesion G protein-coupled receptor F5 G-protein coupled receptor 116	Orphan	N21-L0	GD-	0174

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	乳癌	CXCR1/CMKAR1 / IL8RA	C-X-C chemokine receptor type 1 IL-8 receptor type 1 CD_antigen: CD181	Interleukin-8	N2-L0	GA-	0189
Onc	乳癌 膠芽細胞腫	CCRL2	C-C chemokine receptor-like 2	CCL19 and chemerin/RARRES2	N1-L0	GA-	0139
Onc	乳癌, 前立腺癌	GPER1/CEPR/ CMKRL2/DRY12/ GPER/GPR30	G-protein coupled estrogen receptor 1 G-protein coupled receptor 30	17-beta-estradiol (E2)	N3-L0	GA-	0010
Onc	乳癌, 前立腺癌, 胃癌, 肺癌	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1- phosphate	N2-L0	GA-	0028
Onc	乳癌, 大腸癌, 胃癌, 膵癌, 肺癌,	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
Onc	乳癌, 大腸癌, 膵癌, 肺癌	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-	0037
Onc	乳癌, 肺癌	CXCR4	C-X-C chemokine receptor type 4	C-X-C chemokine CXCL12/SDF-1	N2-L1(21)	GA-	0085
Onc	乳癌, 肺癌, 膵癌, 大腸癌, 胃癌	TSHR	Thyroid stimulating hormone receptor Thyrotropin receptor	Thyroid-stimulating hormone (TSH) or thyrotropin.	GPCR-A	GB-	0068
Onc	乳癌, 転移性上皮細胞	GPR161	G-protein coupled receptor 161	Orphan	N2-L0	GA-	0120
Onc	乳癌, 上皮性悪性腫瘍	ADGRE2/EMR2	Adhesion G protein-coupled receptor E2 EGF-like module receptor 2	Chondroitin sulfate	N8-L0	GD-	0155
Onc	乳癌, 肺癌, 胃癌	PAR1	Protease-activated receptor-1	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N3-L2(22)	GA-	0069
Onc	肺癌	GPR171	Probable G-protein coupled receptor 171	Orphan	N1-L0	GA-	0114

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	肺癌	GPRC5A/GPCR5A/ RAI3/RAIG1	Retinoic acid-induced protein 3 G-protein coupled receptor family C group 5 member A Retinoic acid-induced gene 1 protein, RAIG-1	Orphan	N0-L1(21)	GC-	0188
Onc	肺癌 (免疫チェックポイント療法)	ADOA2A	Adenosine receptor A2a	Adenosine	N0-L1(21)	GA-	0190
Onc	肺癌, 胃癌, 卵巣癌	GPR65/TDAG8	Psychosine receptor G-protein coupled receptor 65 T-cell death-associated gene 8 protein	Psychosine	N1-L2(11-21)	GA-	0195
Onc	肺癌, 前立腺癌, 肝細胞癌	ADGRF1/GPR110/ PGR19	Adhesion G-protein coupled receptor F1 G protein-coupled receptor 110	Orphan	N17-L2(22)	GD-	0170
Onc	肺癌, 前立腺癌, 乳癌, 胃癌	BDKRB2	B2 bradykinin receptor BK-2 receptor	Bradykinin	N2-L1(21)	GA-	0074
Onc	肺癌, 乳癌	GPR19	Probable G-protein coupled receptor 19	Orphan	N2-L0	GA-	0117
Onc	肺癌, 乳癌, 前立腺癌, 大腸癌, 胃癌, 膵癌	CCR2	C-C chemokine receptor type 2 Monocyte Chemotactic Protein- 1(MCP-1)	CCL2, CCL7 and CCL13 chemokines	N1-L0	GA-	0081
Onc	肺癌, 乳癌, 卵巣癌, 脳腫瘍	BAI1/ADGRB1	Adhesion G protein-coupled receptor B1 Brain-specific angiogenesis inhibitor 1	Phosphatidylserine	N7-L0	GD-	0142
Onc	白血病	P2RY8	P2Y purinoceptor 8 P2Y8	Orphan, purines	N2-L0	GA-	0124

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Onc	白血病, 骨髄腫	CCR2	C-C chemokine receptor type 2 Monocyte Chemotactic Protein-1(MCP-1)	CCL2, CCL7 and CCL13 chemokines	N1-L0	GA-	0081
Onc	白血病, 骨髄腫	CXCR4	C-X-C chemokine receptor type 4	C-X-C chemokine CXCL12/SDF-1	N2-L1(21)	GA-	0085
Onc	皮膚癌, 乳癌, 前立腺癌, 卵巣癌, 胆癌, 膵癌 膠芽細胞腫	GPR55	G-protein coupled receptor 55	L-a-lysophosphatidylinositol	N1-L1(21)	GA-	0013
Onc	卵巣癌	EDG7/LPA3	Lysophosphatidic acid receptor 3 LPA3	Lysophosphatidic acid (LPA)	N1-L1(21)	GA-	0039
Onc	膠芽細胞腫	ADGRE3/EMR3/ UNQ683/PRO15 62	Adhesion G protein-coupled receptor E3	Orphan	N9-L0	GD-	0156
Onc	膵癌	GPR23/LPAR4	Lysophosphatidic acid receptor 4	Lysophosphatidic acid (LPA)	N3-L1(21)	GA-	0022
Onc	膵癌	GLP1R	Glucagon-like peptide 1 receptor	Glucagon-like peptide 1 (GLP-1)	N3-L0	GB-	0092
Onc	膵癌 (免疫療法)	GPR92/LPAR5	Lysophosphatidic acid receptor 5	Lysophosphatidic acid (LPA)	N2-L0	GA-	0023
Op	ドライアイ	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
Op	ドライアイ	CHRM3	Muscarinic acetylcholine receptor M3	Muscarine, acetylcholine	N5-L0	GA-	0046
Op	ドライアイ	CCR5/CMKBR5	C-C chemokine receptor type 5	CC-chemokines	N4(O4)L1(31)	GA-	0083
Op	ドライアイ	CXCR4	C-X-C chemokine receptor type 4	C-X-C chemokine CXCL12/SDF-1	N2-L1(21)	GA-	0085
Op	ドライアイ	CGRPR/CALCRL	Calcitonin gene-related peptide type 1 receptor, CGRP type 1 receptor	Calcitonin-gene-related peptide (CGRP), Adrenomedullin together with RAMP3	N3-L0	GB-	0089
Op	光酸化による網膜症	HTR1A/5-HT1A	5-hydroxytryptamine receptor 1A Serotonin receptor 1A, 5HT1A	5-hydroxytryptamine (serotonin)	N3-L0	GA-	0197
Op	虚血性網膜症	CysLT2	Cysteinyl leukotriene receptor 2	LTD4	N3-L1(21)	GA-	0036
Op	先天白内障	GPR161	G-protein coupled receptor 161	Orphan	N2-L0	GA-	0120

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
Op	白内障	LGR4/GPR48	Leucine-rich repeat-containing G-protein coupled receptor 4 G-protein coupled receptor 48	R-spondins	N5-L0	GA-	0121
Op	夜盲症	GRM6/GPRC1F/ MGLUR6	Metabotropic glutamate receptor 6	Glutamate	N4-L0	GC-	0180
Op	緑内障	CHRM3	Muscarinic acetylcholine receptor M3	Muscarine, acetylcholine	N5-L0	GA-	0046
Op	緑内障	CHRM5	Muscarinic acetylcholine receptor M5	Muscarine, acetylcholine	N2-L0	GA-	0050
Op	緑内障	CCR5/CMKBR5	C-C chemokine receptor type 5	CC-chemokines	N4(O4)L1(31)	GA-	0083
Op	緑内障	CXCR4	C-X-C chemokine receptor type 4	C-X-C chemokine CXCL12/SDF-1	N2-L1(21)	GA-	0085
Op	緑内障	ADRB2/ADRB2R / B2AR	Beta-2 adrenergic receptor Beta-2 adrenoreceptor	Catecholamine	N2-L1(21)	GA-	0097
Op	緑内障	LGR4/GPR48	Leucine-rich repeat-containing G-protein coupled receptor 4 G-protein coupled receptor 48	R-spondins	N5-L0	GA-	0121
Op	緑内障	ADOA3	Adenosine receptor A3	Adenosine	N3-L0	GA-	0191
Op	緑内障 糖尿病性網膜症	EDG1/S1P1	Sphingosine-1-phosphate receptor 1	Lysosphingolipid sphingosine 1-phosphate	N2-L0	GA-	0028
Oto	口渇, 疼痛 (細菌感染症)	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
R	肺線維症 呼吸窮迫症候群	CELSR1/CDHF9/ FMI2	Cadherin EGF LAG seven-pass G-type receptor 1 Cadherin family member 9 Flamingo homolog 2	Orphan	N19L1(11)	GD-	0165
R	急性呼吸窮迫症候群	T1R3	Taste receptor type 1 member 3	Umami taste stimulus	N8-L0	GC-	0067
R	肺線維症	EDG3/S1P3	Sphingosine-1-phosphate receptor 3	Lysosphingolipid sphingosine 1-phosphate	N1-L0	GA-	0030

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
R	肺線維症	EDG2/LPA1	Lysophosphatidic acid receptor 1 LPA-1	Lysophosphatidic acid (LPA)	N2-L1(21)	GA-	0037
R	肺線維症	EDG4/LPA2	Lysophosphatidic acid receptor 2 LPA-2	Lysophosphatidic acid (LPA)	N2-L0	GA-	0038
R	慢性閉塞性肺疾患	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
R	慢性閉塞性肺疾患	CysLT1	Cysteinyl leukotriene receptor 1	LTD4	N1-L2(21-31)	GA-	0035
R	慢性閉塞性肺疾患	CHRM2	Muscarinic acetylcholine receptor M2	Muscarine, acetylcholine	N4-L0	GA-	0045
R	慢性閉塞性肺疾患	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-	0131
R	喘息	LXA4/ALX/FPR2	N-formyl peptide receptor 2	Lipoxin A4, N-formyl peptide	N1-L0	GA-	0003
R	喘息	GPR35	G-protein coupled receptor 35 kynurenic acid receptor	Kynurenic acid	N1-L0	GA-	0012
R	喘息	TG1019/OXE	Oxoeicosanoid receptor 1 G-protein coupled receptor 170	Eicosanoids polyunsaturated fatty acids	N1-L0	GA-	0019
R	喘息	CNR1	Cannabinoid receptor 1 CB1	Endocannabinoid, such as N- arachidonylethanolamide and 2- arachidonoylglycerol	N3-L0	GA-	0026
R	喘息	BLT1/GPR16/P2 RY7	Leukotriene B4 receptor 1 P2Y7	Leukotriene B4, extracellular ATP > UTP and ADP	N1-L1(21)	GA-	0033
R	喘息	CysLT1	Cysteinyl leukotriene receptor 1	LTD4	N1-L3(22-31)	GA-	0035
R	喘息	CHRM2	Muscarinic acetylcholine receptor M2	Muscarine, acetylcholine	N4-L0	GA-	0045
R	喘息	NPSR1/GPR154/ GPRA/PGR14	Neuropeptide S receptor G-protein coupled receptor 154	Neuropeptide S (NPS)	N1-L0	GA-	0078
R	喘息	CCR4/CMKBR4	C-C chemokine receptor type 4	CC-chemokines	N0-L2(22)	GA-	0082
R	喘息	MAS1/MAS	Proto-oncogene Mas	Angiotensin 1-7	N3-L0	GA-	0131

疾患領域	対象疾患	ターゲット分子				Reference no.	
		遺伝子名	名称	リガンド	糖鎖修飾		
R	喘息	GPR97/PGR26	Adhesion G protein-coupled receptor G3 G-protein coupled receptor 97	Orphan	N3-L1(21)	GD-	0146
R	喘息 炎症	GPR65/TDAG8	Psychosine receptor G-protein coupled receptor 65 T-cell death-associated gene 8 protein	Psychosine	N1-L2(11-21)	GA-	0195
R	喘息 慢性閉塞性肺疾患	ADOA1	Adenosine receptor A1	Adenosine	N0-L1(21)	GA-	0192
R	喘息, 炎症性疾患	PAR2	Protease-activated receptor-2	Activated thrombin. A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand.	N1-L1(21)	GA-	0070
R	喘息, 慢性閉塞性肺疾患	ADRB1/ADRB1R / B1AR	Beta-1 adrenergic receptor Beta-1 adrenoreceptor	Catecholamine	N1-L0	GA-	0096
Ur	尿崩症	AVPR1b	Vasopressin V1b receptor	Arginine vasopressin	N1-L0	GA-	0052
Ur	尿失禁	HTR2C	5-hydroxytryptamine receptor 2C	5-hydroxytryptamine (serotonin)	N1-L2(22)	GA-	0056
Ur	過活動膀胱	ADRB3/ADRB3R /B3AR	Beta-3 adrenergic receptor Beta-3 adrenoreceptor	Catecholamine	N2L0	GA-	0098