

Human opioid receptor-like 1 (OPRL1) 3xHA-tagged (N-terminus) in pcDNA 3.1

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                >AflIII      >Asp7181
                |           |
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>NheI          >PmeI      >HindIII      >KpnI
|             |           |           |
|             |           |           |
GCT AGC GTT TAA ACT TAA GCT TGG TAC CAC C ATG TAC CCA TAC GAT GTT
                M   Y   P   Y   D   V>
                a   a 3XHA a   a   >

50              60              70              80              90
CCA GAT TAC GCT TAC CCA TAC GAT GTT CCA GAT TAC GCT TAC CCA TAC
P   D   Y   A   Y   P   Y   D   V   P   D   Y   A   Y   P   Y>
a   a   a   a   a   a   a   a 3XHA a   a   a   a   a   a   a   >

100             110             120             130             140
GAT GTT CCA GAT TAC GCT GAT GAG CCC CTC TTC CCC GCG CCG TTC TGG
D   V   P   D   Y   A   D>
a   a   3XHA a   a   >

                E   P   L   F   P   A   P   F   W>
                HUMAN OPIOID RECEPTOR-LIKE 1>

150             160             170             180             190
GAG GTT ATC TAC GGC AGC CAC CTT CAG GGC AAC CTG TCC CTC CTG AGC
E   V   I   Y   G   S   H   L   Q   G   N   L   S   L   L   S>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

200             210             220             230             240
CCC AAC CAC AGT CTG CTG CCC CCG CAT CTG CTG CTC AAT GCC AGC CAC
P   N   H   S   L   L   P   P   H   L   L   L   N   A   S   H>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

250             260             270             280
GGC GCC TTC CTG CCC CTC GGG CTC AAG GTC ACC ATC GTG GGG CTC TAC
G   A   F   L   P   L   G   L   K   V   T   I   V   G   L   Y>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

290             300             310             320             330
CTG GCC GTG TGT GTC GGA GGG CTC CTG GGG AAC TGC CTT GTC ATG TAC
L   A   V   C   V   G   G   L   L   G   N   C   L   V   M   Y>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

340             350             360             370             380
GTC ATC CTC AGG CAC ACC AAA ATG AAG ACA GCC ACC AAT ATT TAC ATC
V   I   L   R   H   T   K   M   K   T   A   T   N   I   Y   I>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

390             400             410             420             430
TTT AAC CTG GCC CTG GCC GAC ACT CTG GTC CTG CTG ACG CTG CCC TTC
F   N   L   A   L   A   D   T   L   V   L   L   T   L   P   F>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

440             450             460             470             480
CAG GGC ACG GAC ATC CTC CTG GGC TTC TGG CCG TTT GGG AAT GCG CTG
Q   G   T   D   I   L   L   G   F   W   P   F   G   N   A   L>
b   b   b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1) b   b   b   >

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          490          500          510          520
TGC AAG ACA GTC ATT GCC ATT GAC TAC TAC AAC ATG TTC ACC AGC ACC
C  K  T  V  I  A  I  D  Y  Y  N  M  F  T  S  T>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

530          540          550          560          570
TTC ACC CTA ACT GCC ATG AGT GTG GAT CGC TAT GTA GCC ATC TGC CAC
F  T  L  T  A  M  S  V  D  R  Y  V  A  I  C  H>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

580          590          600          610          620
CCC ATC CGT GCC CTC GAC GTC CGC ACG TCC AGC AAA GCC CAG GCT GTC
P  I  R  A  L  D  V  R  T  S  S  K  A  Q  A  V>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

          630          640          650          660          670
AAT GTG GCC ATC TGG GCC CTG GCC TCT GTT GTC GGT GTT CCC GTT GCC
N  V  A  I  W  A  L  A  S  V  V  G  V  P  V  A>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

          680          690          700          710          720
ATC ATG GGC TCG GCA CAG GTC GAG GAT GAA GAG ATC GAG TGC CTG GTG
I  M  G  S  A  Q  V  E  D  E  E  I  E  C  L  V>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

          730          740          750          760
GAG ATC CCT ACC CCT CAG GAT TAC TGG GGC CCG GTG TTT GCC ATC TGC
E  I  P  T  P  Q  D  Y  W  G  P  V  F  A  I  C>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

770          780          790          800          810
ATC TTC CTC TTC TCC TTC ATC GTC CCC GTG CTC GTC ATC TCT GTC TGC
I  F  L  F  S  F  I  V  P  V  L  V  I  S  V  C>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

820          830          840          850          860
TAC AGC CTC ATG ATC CGG CGG CTC CGT GGA GTC CGC CTG CTC TCG GGC
Y  S  L  M  I  R  R  L  R  G  V  R  L  L  S  G>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

          870          880          890          900          910
TCC CGA GAG AAG GAC CGG AAC CTG CGG CGC ATC ACT CGG CTG GTG CTG
S  R  E  K  D  R  N  L  R  R  I  T  R  L  V  L>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

          920          930          940          950          960
GTG GTA GTG GCT GTG TTC GTG GGC TGC TGG ACG CCT GTC CAG GTC TTC
V  V  V  A  V  F  V  G  C  W  T  P  V  Q  V  F>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

          970          980          990          1000
GTG CTG GCC CAA GGG CTG GGG GTT CAG CCG AGC AGC GAG ACT GCC GTG
V  L  A  Q  G  L  G  V  Q  P  S  S  E  T  A  V>
__b__b__b_HUMAN OPIOID RECEPTOR-LIKE 1 (OPRL1)__b__b__b__>

1010          1020          1030          1040          1050

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AAC