

sjgpcr (orf)	1	ATGAAAAGTTGTCAACAACTGATTGTACACTTAACATAATCCAATACCAAACAGAAC	59
SmGPCR (ORF)	1	ATGCAATATATAAACAAAAC	20
sjgpcr (orf)	60	AAACCAAGTGATAGCATTAGGCTGGAATACCTAACAAAATCTGGATCCCATGGAAT	118
SmGPCR (ORF)	21	GTCGCTAAATTCAGTGTTATTCAGATTCCCTAATCAAATCATGGATCCTCTCGAAC	79
sjgpcr (orf)	119	CAGTTGTAAACTGGGGGATATCATTTTTTTTAGTTTTAGCCACCGAACTATATTTTT	177
SmGPCR (ORF)	80	CTATAATAAAATGGACCATATCATTATTTTAAATTATAGCCACTGGGACTACATTC	138
sjgpcr (orf)	178	GGAAATCTTTAATAATTCCTGCTTTCATAACAAATAATCGTTAAGACGTATAACAGA	236
SmGPCR (ORF)	139	GGAAATCTGTTAATAATTCCTGCTTTCATAACAAATAGTCGCTTACGGCGTATAACGGA	197
sjgpcr (orf)	237	TCAATATATTGTTTCGCTTGTCTGTAGCTGATCTACTTGTAGCAATTTTAGTGCTTCCAC	295
SmGPCR (ORF)	198	TCAATACATTGTTTCGCTTGTCTGTGCTGATCTACTTGTATCGGCTTCTAGTGCTGCCTC	256
sjgpcr (orf)	296	TGGCGATTGTTTCGTCAGAACCTGGGTTCTTGGCCGTTTGAATCTGATCGATTATGTCAA	354
SmGPCR (ORF)	257	TGGCTATCGTTCGTCAGAAATTTAGGTTATTTGGCCATTCGAATCTGATCGATTGTGTCA	315
sjgpcr (orf)	355	TTTTGGTTGCTGCTAATATTGTTCTATGTATGGCATCTATACTTAATTTATGTTGCAT	413
SmGPCR (ORF)	316	TTTTGGTTATCCGCTAATATTGTTATGTATGGCATCTATACTAATTTATGTTGTAT	374
sjgpcr (orf)	414	TTCCCTGGATAGATACATTGCTATCACTCATCCGATGAAGTATTTATAAAGCGTACTC	472
SmGPCR (ORF)	375	ATCTCTGGATAGATATATTGCAATCAGCCGTCCAATGAAATATTTCAAAAGCGTACTC	433
sjgpcr (orf)	473	GTCTTACAGCCTCTGCAATGATAGCTTTTGCTTGGATATTACCACTTATCATAATGCTT	531
SmGPCR (ORF)	434	GTTTTACAGCCTCTACAATGATAGCTGTTGCTTGGATATTACCACTTATAACTATGCTT	492
sjgpcr (orf)	532	CCGCCTATTGTTGGTGGAAATCAACATACGTTAG-ACCTGGTTCATGCCATATACATA	589
SmGPCR (ORF)	493	CTCCCTTTGTTGGTGGGAATCAGCACACTTTGGGACTTGGATCATGTATATCACATA	551
sjgpcr (orf)	590	CAACAAGCATATAGGATAT	609
SmGPCR (ORF)	552	TAATAAAGCATATAGGATTTATTCTTCAATTTGTTGGATTTTTTCGGACCATTTCTGCTAA	610
sjgpcr (orf)	610		609
SmGPCR (ORF)	611	TTGCTTATATATATTACGAGTGTTTTGGATAATAAAGCATCGTTTAAAGGTCTTACAA	669
sjgpcr (orf)	610		609
SmGPCR (ORF)	670	ATTACAAACATTAAACTTTCCTCACTCAAAAAACCTAAATCACATATTAAGCGACACG	728
sjgpcr (orf)	610		609
SmGPCR (ORF)	729	TAAGCCAGCTCCGATAATAATAAATTTGCAACAAGTTTGGGAAAATATTAAGGAAAGA	787
sjgpcr (orf)	610		609
SmGPCR (ORF)	788	TTGGCAAAGTAAATATTTTACGAAATCAGTCATCTAAATCAAAGAATACTTGCCCATAT	846
sjgpcr (orf)	610		609
SmGPCR (ORF)	847	AGTGGCCATTTTTTCCATTCTGATGAAAAATGGATGTAATCAAATTTATGCGAGTTGTTT	905
sjgpcr (orf)	610		609
SmGPCR (ORF)	906	ACTCAACCACAAACATCCCTTTGATTCTTTTAGAAGTGATGATATTTAATGAAGAAA	964
sjgpcr (orf)	610		609
SmGPCR (ORF)	965	TCGATAGGAATTATAGACAAAAAATATTAGATATTAAGATGAACAAAACAGATAGAGAA	1023
sjgpcr (orf)	610		609
SmGPCR (ORF)	1024	TTTTCTTTGACATCTCAAGATCACGTTGAATTAGATTTCCCGAACCAACAGATCAAAA	1082
sjgpcr (orf)	610		609
SmGPCR (ORF)	1083	ACTAAAAGTAATACAAATATTTAATATTTCAACGTCAGAGAAAGAATTACAAAAGGCGA	1141
sjgpcr (orf)	610		609
SmGPCR (ORF)	1142	ATTGGGAACCAACCAAATGTAACATTGAAAAGTGAACAAAACAACATCAACACGAT	1200
sjgpcr (orf)	610		609
SmGPCR (ORF)	1201	TACTTACATAGAAGTAATGAAGAACAAAAGAATAAACTAGGAGACAAAATTAATTAA	1259
sjgpcr (orf)	610		609
SmGPCR (ORF)	1260	TTCTTCGAAATTACCATCATTAACATCATTTAGTATAGATCATATAAAGAAGCTTCGAC	1318
sjgpcr (orf)	610		609

SmGPCR (ORF) 1319 GATTGAAATCTTTACCAAAATTTTAAAAACAGAATACAATAAAACAGAACAATCACAAAAG 1377

sjgpcr (orf) 610 609

SmGPCR (ORF) 1378 AATCTAATTTATATCGACATGATCATTTTCATATTTTCATAGGGAACAAAAAAGTGCATT 1436

sjgpcr (orf) 610 609

SmGPCR (ORF) 1437 AATTTTAGCTGCAGTTGTTGGATGTTTTACAATATGTTGGTTTCCATTTTTTATATGTA 1495

sjgpcr (orf) 610 609

SmGPCR (ORF) 1496 TTATTGGTGAAGCTATATGTGATTGCAATATTCAAATACTATAAATTACATTTGTTTCA 1554

sjgpcr (orf) 610 609

SmGPCR (ORF) 1555 TGGTTAGGTTATTTTAATAGTATTTGTAATCCATTTATATATGCATTTTTTAAAAAAGA 1613

sjgpcr (orf) 610 609

SmGPCR (ORF) 1614 ATATGCCAAATCATTAAATATATTATTCAAGTTAACAAATGGAATATTTAAAGCTATA 1672

sjgpcr (orf) 610 609

SmGPCR (ORF) 1673 ACCATAAA 1680

### At Protein level:

smgpcr (protein) 1 MOYINKTSLNSSVIPDSLKSWILSNPKIKWTISLFLIATGTT 44

sjgpcr (protein) 1 MKSCQQTDC TLNLIQYTNRTNQSDSIRLEYLTKSWIPKSVVNWALSFVLVATGTI 57

smgpcr (protein) 45 FFGNLLIILAFITNSRLRRITDQYIVSLAVADLLVSVLVLPLAIVRQNLGYPFESD 101

sjgpcr (protein) 58 FFGNLLIILAFITNNRLRRITDQYIVSLAVADLLVALLVLPLAIVRQNLGSWPFESD 114

smgpcr (protein) 102 RLCQFWLSANIVLCMASILNLCCISLDRIYIATSRPMKYFTKRRTASTMIAVAVIIL 158

sjgpcr (protein) 115 RLCQFWLSANIVLCMASILNLCCISLDRIYIATTHPMKYFIKRRTL TASAMIAFAVII 171

smgpcr (protein) 159 PLITMLLPFVGGNQHTLGLGSHITYNKAYRIYSSIVGFFGPFLLIAYIYLRVFWII 215

sjgpcr (protein) 172 PLITMLPPIVGGNQHTLDLVHAILHTTKHIGY 203

smgpcr (protein) 216 KHLKVLQITNIKLSLKKPKSHIKATRKPAPIIINLQQVWENIKGKIGKVNILRNQ 272

sjgpcr (protein) 204 203

smgpcr (protein) 273 SSKSKNTCPYSGHFFHSDENGCNQIYASCLLNHKHPFDSFRSDDILNEEIDRNRYRQK 329

sjgpcr (protein) 204 203

smgpcr (protein) 330 ILDIKMNKTDREFSLTSDHVELDFPEPTDQKLKVIQIFNISTSEKELQKANWEPTP 386

sjgpcr (protein) 204 203

smgpcr (protein) 387 NVTLKSETKQHHDYLRHSNEEQKNKLGDKQLINSSKLP SLTSF SIDHIKLRRLKS 443

sjgpcr (protein) 204 203

smgpcr (protein) 444 LPNFKTEYNKTEQSQKNLIYYRHDHFI FHREQTALILAAVVGCF TICWFFFCICII 500

sjgpcr (protein) 204 203

smgpcr (protein) 501 GEAICDCQYSNTIITFVSWLGYFNSICNPFYIAFFKKEYAKSFKYIIQVNKNWIKSY 557

sjgpcr (protein) 204 203

smgpcr (protein) 558 NHK 560

sjgpcr (protein) 204 203

SmGPCR-il3: antibody target region (in yellow)

smgpcr (protein)	1	MQYINKTSLNSSVIPDSLIIKSWILSNPIIKWTISLFLIIATGTTFFGNL	49
il3 (smgpcr)- ab region	1		0
smgpcr (protein)	50	LIILAFITNSRLRRITDQYIVSLAVADLLVSVLVLPLAIVRQNLGYWPF	98
il3 (smgpcr)- ab region	1		0
smgpcr (protein)	99	ESDRLCQFWLSANIVLCMASILNLCISLDRYIAISRPMKYFTKRTRFT	147
il3 (smgpcr)- ab region	1		0
smgpcr (protein)	148	ASTMIAVAVILPLITMLLPFVGGNQHTLGLGSCHITYNKAYRIYSSIVG	196
il3 (smgpcr)- ab region	1		0
smgpcr (protein)	197	FFGPFLLIAYIYLRVFWIIKHRLKVLQITNIKLSLKKPKSHIKATRKP	245
il3 (smgpcr)- ab region	1		0
smgpcr (protein)	246	APIIINLQQVWENIKGKIGKVNILRNQSSKSKNTCPYSGHFFHSDENG	294
il3 (smgpcr)- ab region	1		0
smgpcr (protein)	295	NQIYASCLLNHKKHPFDSFRSD-DILNEEIDRNYRQKIIDIKMNKTDREF	342
il3 (smgpcr)- ab region	1	MHHHHHSSGIVPRGSEMKETAIAAKFERQHMDSPDLGTD-DD	41
smgpcr (protein)	343	SLTSQDHYELDFPEPTDQKLKVIQIFNISTSEKELQKANWEPTPNVTLK	391
il3 (smgpcr)- ab region	42	DKAMADIGSEFMPEPTDQKLKVIQIFNISTSEKELQKANWEPTPNVTLK	90
smgpcr (protein)	392	SETKQHQHDYLHRSNEEQKNKLGDKQLINSSKLPSTLTSFSDHIKLLRR	440
il3 (smgpcr)- ab region	91	SETKQHQHDYLHRSNEEQKNKLGDKQLINSSKLPSTLTSFSDHIKLLRR	139
smgpcr (protein)	441	LKSLPNFKTEYNKTEQSQKNLIYYRHDHFIFHREQKTAIILAAVVGCF	489
il3 (smgpcr)- ab region	140	LKSLPNFKTEYNKTEQSQKNLIYYRHDHFIFHREQKTAIAAIEHHHHH	188
smgpcr (protein)	490	ICWFPPFICIIGEAICDCQYSNTIITFVSWLGYFNSICNPFYAFFKKE	538
il3 (smgpcr)- ab region	189		188
smgpcr (protein)	539	YAKSFKYIIQVNKNIKSYNHK	560
il3 (smgpcr)- ab region	189		188