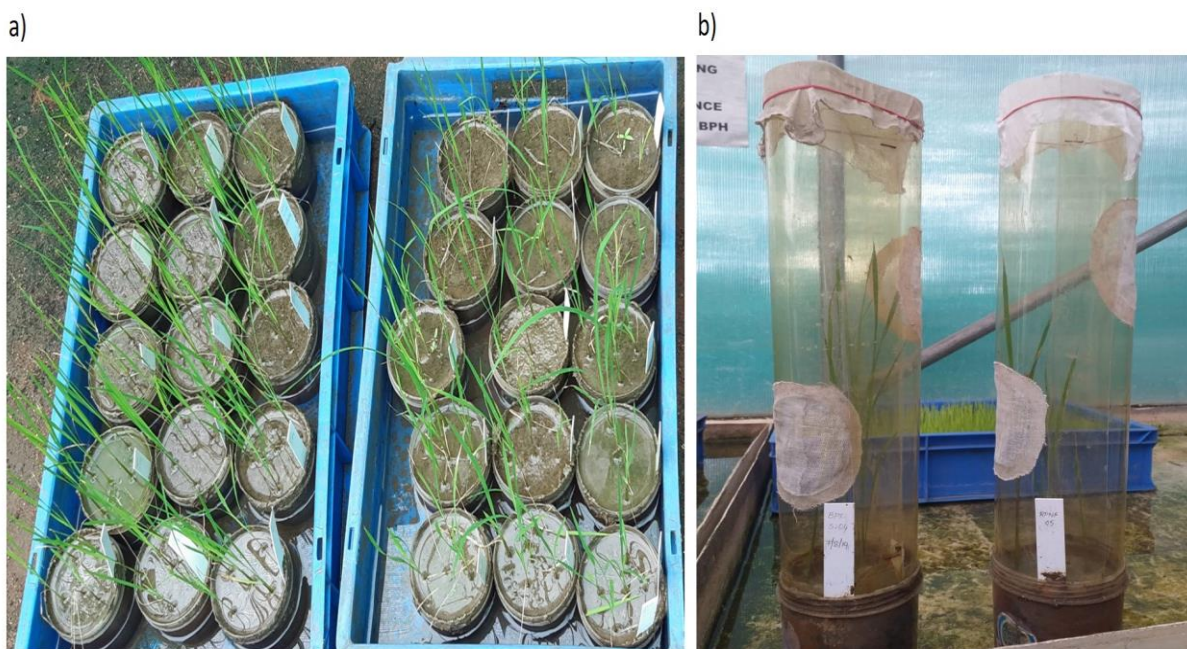


## Supplementary Material

### Study on Transcriptional Responses and Identification of Ribosomal Protein Genes for Potential Resistance against Brown Planthopper and Gall Midge Pests in Rice

Mazahar Moin<sup>1,\*,#</sup>, Anusree Saha<sup>2,#</sup>, Achala Bakshi<sup>1</sup>, Divya D<sup>3</sup>, Madhav M.S<sup>1</sup> and Kirti P.B<sup>2,3</sup>

<sup>1</sup>Biotechnology Division, ICAR-Indian Institute of Rice Research (IIRR), Hyderabad-500030, India; <sup>2</sup>Department of Plant Sciences, University of Hyderabad, Hyderabad-500046, India; <sup>3</sup>Agri-Biotech Foundation, PJTS Agricultural University, Hyderabad-500030, India



**Supplemental Fig. (1).** Growth of BPT5205 and RPNF05 seedlings and infestation with BPH pest.

- Rice seeds of BPT5204 and RPNF05 were allowed to germinate in plastic trays and plants were raised under controlled greenhouse conditions ( $30 \pm 2^\circ\text{C}$  with 16/8 h of light/ dark photoperiod).
- Infestation of three-week old plants with BPH nymphs.

**Supplementary Table 1. List of primers.****a) Primers used in RPL gene expression studies.**

<b>Primer Name</b>	<b>Sequence (5'-3')</b>
L3 RT FP	TGGACTTGTGGCCTATGTGA
L3 RT RP	CCGGCATCGCTATCATACTT
L4 RT FP	AAGAAGCTCGACGAGGTGTA
L4 RT RP	CCACATTCTTCAGAGGGTTC
L5 RT FP	GATCTTGGCATCAAGTACGAC
L5 RT RP	GACACCCTCATACTTGACCTG
L6 RT FP	GTTCCCTAAGCAGCTCAAAT
L6 RT RP	CTTCTGCTTCTTGTCCCTAGA
L7 RT FP	TACCCAAACCTGAAGAGTGTC
L7 RT RP	GACAGTCATGATCTCGTGGA
L8 RT FP	ACTACGCCATCGTCATCAG
L8 RT RP	GGTACTTGTGGTAGGCGTTT
L10 RT FP	AGAAGAAGCCTGGATTAGAGC
L10 RT RP	ATATCCTGCTGGAGGACTTG
L11 RT FP	AAGAAGATCGGTGAGGACATC
L11 RT RP	TCTTGACCTTCTTCCTGTCC
L12 RT FP	GCTCATTGTACAGCACAGAG
L12 RT RP	TTGGTTCACTCTGAGAAGGAG
L13a RT FP	GAACTACCACGACCCATCAG
L13a RT RP	GGGGCCAAAATATCTATCTG
L13b RT FP	AAGCACTGGCAGAACTATGTC
L13b RT RP	CCCTCGACTTCATGTTGTA
L14 RT FP	GTGAACTACGGCAAGGACTAC
L14 RT RP	TAACATCAGCCTCCTCCATAG
L15 RT FP	ACAAGTACGTGTCGGAGCTAT
L15 RT RP	GACACGGTAAACCACATAACC
L18a RT FP	TCCAAGTTCTGGTACTTCCTG
L18a RT RP	GTTGTGGTAACTGTTCTGCT
L18p RT FP	TGGGGAGGACTACTATGTTGA
L18p RT RP	AAACCTCTTGTCACTGTGAGG
L19.3 RT FP	AGTATCGTGAGGCCAAGAAG
L19.3 RT RP	CTTAGCCTCAAACCTGGTCAGA
L21.2 RT FP	CTGAGGAAGATCAAGAACGAC
L21.2 RT RP	AACCACCCTTGAGATCATTG
L22 RT FP	GAGGTGAAAGGTCTGGATGTT
L22 RT RP	TCACTGGTTCTTCCTTCTCTG
L23A RT FP	GACCAAAGACCCTGAAGAAGG
L23A RT RP	ACGATGAAGACAAGGGTGTG
L24b RT FP	GTTGGTGCTACACTGGAAGTT
L24b RT RP	CCTTCGACTGTGTCTTCTGAG

L26.1 RT FP	ACAAGTACAACGTGGTGAGG
L26.1 RT RP	GTCCTTGTGCGAGCTTGAGTT
L27.3 RT FP	CTTCCTCAAGCTCGTCAACT
L27.3 RT RP	CTTGGTGAAGAACCACCTGT
L28 RT FP	TAGACGAATACCTCCTGAAGA
L28 RT RP	AAACCCTGTTTCGATCTTAGTC
L29 RT FP	CCCAACAAGCTCTCCAATATA
L29 RT RP	AGAAACAGAAGCATTCCCTG
L30e RT FP	GAGCAAGAAGAAGAACAAGTC
L30e RT RP	GCTTCATCCATATCTTTTCCG
L31 RT FP	TCAAGGAGATCAGGAAGTTG
L31 RT RP	AACAGTGACCAGAGAGTAGAG
L32 RT FP	GCCTAATATTGGCTATGGTTC
L32 RT RP	CTTCTTCGTTGAGACATTGTG
L34 RT FP	GAAGAAGATCCAGGGAATTCC
L34 RT RP	CACAATCTTCTGCTCTTCAAC
L35a.3 RT FP	CTACGTCTACAAGGCCAAG
L35a.3 RT RP	TGCTGGGGTACATGAAGA
L36.2 RT FP	GGAAAAGTACCAAGAGAGTGA
L36.2 RT RP	CTTCTTCTTTGCTCTCTTGTG
L37 RT FP	CTTCCACCTGCAGAAGAG
L37 RT RP	CCCCTCTCTGAAGTTACTCT
L38 RT FP	CACGAGATCAAGGACTTCC
L38 RT RP	AAAGGTGGATGAAATGTAGGC
L44 RT FP	AAGAAGACCTACTGCAAGAAC
L44 RT RP	CCTTACCCTTCTTGTACTGAG
L51 RT FP	GTGACAGAGTTAGTCCGTGGA
L51 RT RP	TCTCAGCTTACCACCTTTTCT

\*RT-Real-time, FP-Forward primer, RP-reverse primer

**b) Primers used in RPS gene expression studies.**

Gene name	Forward primer (5'-3')	Reverse primer (5'-3')
S3a	TGAAGCCCATGTGGATGTTA	TCACATGTTGATGCCTGGTT
S4	CAGGTTGAAGTATGCGCTGA	AGCGACCCTTGGTGTGCATAG
S4a	AGCGGCATGTTATGGTTGAT	GGACCTTGAGAGCTTGAAC
S5	ATATCCCTCGCCGACTACCT	TGATCTTCTTGCCGTTGTTG
S5a	CAACGGGAAGAAGATCATGG	GACCCTCCTCAAGGGAGAGA
S6	GCTACGGCATCAAGAAGCTC	CAAGTGCCGTGTACAAAGT
S6a	CATGAAGCAGGGTGTGCTTA	TCAGTCAAGCCAGGAAGGTC
S7	TGTGCAAGGCATTCAAGAAA	TCCAAGATTCCATCATGAACAG
S7a	AGAAGAAGTTCAGCGGCAAG	GCACCATCCAGACGGTATCT
S9	TTATCAGGCAGCACCATC	GGCCTTCTGGTTCTTCTCT
S9-2	GAGCTGTGGCGTGTTCAGTA	AACAGTGAGGGCAAGGACAT
S10	CCCTCAAGAAGTCTGCCAAG	ACCAAATCACCTGGAGCAC

S10a	GCATTGAGCACCTGAGGAAT	AACCTTGGTCTGTCCCCTTC
S13	AGGTGGAGGAGATGATCGTG	GACGGCCTTCTTGATGAGG
S13a	GTGGTGCTCCGTGACCAG	TGGAGTCCTTGTCTTCTCTG
S15	ATGACCTCGTCCAGCTCTTC	CCGATCATCTCAGGGACAAT
S15a	CCGACCCTCATCAAAGGTTA	TCCTTGACACCAACATCGAA
S17	ACAAGAAGGTGCTGGAGGA	TCCTGGAGCTTGAGGGAGAT
S18	CGACATCGACATGAACAAGC	TCAGCCTCTCAAGGTCATCC
S18a	CTCACCTCCATCAAGGGTGT	ACCTCCCGTCTTGTAGTCC
S18b	AAGGATGGGAGGTTCTCTCAG	TCTTGAGACACCGACAGTCT
S19	CAAGATGGAGCTCCCTGAGT	GGACGTGAGCCATTCTCT
S21	TCAGATGGTGGACCTCTACG	AGAGCACTGTCCGGCTCT
S23	GAGCCATCTTGCCAATGAAT	CGATGAAGTTCAAGCAACCA
S23a	TTTTGGGAGAAAAAGGCTTG	CCTCTGCTTCTTCTTCTCCTTG
S24	GTCTCCAAGGCTGAGCTGAA	CTTGGGCTCGTACTTCTTCG
S25	GGGAAAGCAAAAGGAGAAGG	GATTAGGCCCGTGTGCTATTA
S25a	CGGAGGCAAGCAGAAGAAG	CAAGATCCTTGATGGCCTGT
S26	CAAGGCGATCAAGAGGTTTC	GACGATGTGAGCATGGATTG
S27	CGGAGCTGGAGAAGCTCA	CTGGCCTCCACCAGTAG
S27a	CGAAGATCCAGGACAAGGAG	CTTGGGCTTGGTGTACGTCT
S28	GGATACCCAGGTCAAACCTGC	CTGGCCTCCCTCTCAGACT
S29	CACTCCAACGTGTGGAACCTC	CGGTACTTGATGAAGCCAATG
S30	GAAGGTGAGGGGCGAGAC	GACGAAACGGCGTTGTACT

\*RT, real-time; FP, forward primer; RP, reverse primer

**Supplementary Table 2. List of wound-responsive cis-elements present in the putative promoter regions of RP genes.**

<i>Cis-elements</i>	<i>RPL genes</i>	<i>RPS genes</i>
W-Box (wound induced signaling)	<i>RPL3, L4, L6, L8, L11, L18P, L23A, L30e, L34</i>	<i>RPS7, S9, S23, S25.</i>
WUN- motif (wound-induced stress)	<i>RPL23a</i>	<i>RPS10a, S24.</i>
TCA element (SA responsive)	<i>RPL3, L4, L10, L18a, L18P, L24a, L30e, L31, L32, L34, L35</i>	<i>RPS4, S4a, S7a, S9, S13, S13a, S17, S18, S23a, S24, S25a, S26, S27, S27a, S28</i>
ERE (ethylene responsive element)	<i>RPL27.3, L26.1</i>	<i>RPS9, S13a, S27, S28</i>
TGACG motif (MeJA responsive)	<i>RPL6, L8, L10, L11, L13b, L14, L18a, L18P, L19.3, L21.2, L23a, L24, L26.1, L28, L31, L32, L34, L35, L36, L38, L44.</i>	<i>RPS3a, S4, S4a, S5, S6, S6a, S7, S9.2, S10, S10a, S13, S15, S15a, S18, S18a, S19, S23, S23a, S24, S25, S25a, S26, S27, S27a, S29, S30</i>
CGTCA motif (MeJA responsive)	<i>RPL10, L11, L14, L15, L18a, L21.2, L23a, L26.1, L30e, L31, L32, L36, L38, L44</i>	<i>RPS3a, S4, S4a, S5, S6, S6a, S7, S9.2, S10, S10a, S13, S15, S15a, S18, S18a, S19, S23, S23a, S24, S25, S25a, S26, S27, S27a, S29</i>

**Supplementary Table 3. List of commonly up and downregulated RPL and RPS genes.**

Treatment	Total genes up-regulated	List of overlapping genes or commonly upregulated genes
BPT-BPH-12 h, BPT-BPH-6 h, RPNF-BPH-12 h	3	L26.1 L7 L22
BPT-BPH-6 h, RPNF-BPH-12 h, RPNF-BPH-6 h	1	L15
BPT-BPH-12 h, BPT-BPH-6 h	7	L13a L4 L21.2 L8 L10 L12 L13b
BPT-BPH-12 h, RPNF-BPH-6 h	1	L51
BPT-BPH-12 h, RPNF-BPH-12 h	2	L11 L38
BPT-BPH-12 h	17	L44 L28 L19.3 L5 L27.3 L31 L29 L34 L18p L36.2 L35a.3 L6 L18a L32 L30e L3 L37

**Supple Table. 3b. List of RPL genes commonly up-regulated in response to GM in BPT and RPNF genotypes.**

Treatment	Total Genes Up-regulated	List of Overlapping Genes
BPT-GM-24 h, RPNF-GM-120 h, RPNF-GM-24 h	1	L15
BPT-GM-120 h, BPT-GM-24 h	1	L30e
BPT-GM-24 h, RPNF-GM-120 h	1	L22
BPT-GM-24 h	5	L27.3 L6 L13b L4 L21.2
BPT-GM-120 h	4	L5 L31 L29 L34
RPNF-GM-24 h	1	L18a
RPNF-GM-120 h	2	L38 L36.2

**Supple Table. 3c. List of RPL genes commonly down-regulated in response to BPH in BPT and RPNF.**

Treatment	Total Genes Down-regulated	List of Overlapping Genes
BPT-BPH-12 h, BPT-BPH-6 h, RPNF-BPH-12 h, RPNF-BPH-6 h	4	L23A L24a L14 L24b
BPT-BPH-6 h, RPNF-BPH-12 h, RPNF-BPH-6 h,	17	L44 L27.3 L31 L29 L5 L19.3 L28 L34 L18p L36.2 L35a.3 L6 L18a L32 L30e L3 L37
BPT-BPH-6 h, RPNF-BPH-6 h	2	L11 L38
BPT-BPH-6 h, RPNF-BPH-12 h	1	L51
RPNF-BPH-12 h, RPNF-BPH-6 h	7	L13a L13b L4 L21.2 L8 L10 L12
BPT-BPH-12 h	1	L15
RPNF-BPH-6 h	3	L22 L26.1 L7

**Supple Table. 3d. List of RPL genes commonly down-regulated in response to GM in BPT and RPNF.**

Treatment	Total Genes Down-regulated	List of Overlapping Genes
BPT-GM-120 h, BPT-GM-24 h, RPNF-GM-120 h, RPNF-GM-24 h	21	L44 L11 L23A L13a L24a L14 L19.3 L28 L38 L8 L18p L24b L26.1 L35a.3 L51 L10 L12 L7 L32 L3 L37
BPT-GM-120 h, BPT-GM-24 h, RPNF-GM-24 h	1	L36.2
BPT-GM-120 h, BPT-GM-24 h, RPNF-GM-120 h	1	L18a
BPT-GM-24 h, RPNF-GM-120 h, RPNF-GM-24 h	4	L31 L29 L5 L34
BPT-GM-120 h, RPNF-GM-120 h, RPNF-GM-24 h	5	L27.3 L13b L4 L21.2 L6
BPT-GM-120 h, RPNF-GM-24 h	1	L22
RPNF-GM-120 h, RPNF-GM-24 h	1	L30e
BPT-GM-120 h	1	L15

**Supple Table. 3e. List of RPS genes commonly up-regulated in response to BPH in BPT and RPNF.**

Treatment	Total Genes Up-regulated	List of Overlapping Genes
BPT-BPH-12 h, BPT-BPH-6 h, RPNF-BPH-12 h, RPNF-BPH-6 h	1	S23a
BPT-BPH-12 h, BPT-BPH-6 h, RPNF-BPH-12 h	3	S13 S5 S25a
BPT-BPH-12 h, BPT-BPH-6 h	7	S25 S13a S18 S27a S24 S4a S21
BPT-BPH-12 h, RPNF-BPH-12 h	1	S6
BPT-BPH-12 h	10	S18b S10a S28 S10 S6a S26 S18a S9-2 S17 S19
RPNF-BPH-12 h	1	S5a

**Supple Table. 3f. List of RPS genes commonly up-regulated in response to GM in BPT and RPNF.**

Treatment	Total genes up-regulated	List of overlapping genes
BPT-GM-24 h, RPNF-GM-120 h, RPNF-GM-24 h	1	S25a
BPT-GM-120 h, BPT-GM-24 h	2	S10a S15
BPT-GM-24 h, RPNF-GM-120 h	1	S5
BPT-GM-24 h	13	S13 S9 S25 S6a S26 S7a S13a S23a S6 S4 S24 S4a S21
BPT-GM-120 h	1	S7
RPNF-GM-120 h	1	S9-2

**Supple Table. 3g. List of RPS genes commonly down-regulated in response to BPH in BPT and RPNF.**

Treatment	Total genes down-regulated	List of overlapping genes
BPT-BPH-12 h, BPT-BPH-6 h, RPNF-BPH-12 h, RPNF-BPH-6 h	12	S15a S30 S20 S29 S23 S3a S27 S9 S7a S4 S15 S7
BPT-BPH-12 h, BPT-BPH-6 h, RPNF-BPH-6 h	1	S5a
BPT-BPH-6 h, RPNF-BPH-12 h, RPNF-BPH-6 h	9	S26 S9-2 S19 S10a S28 S10 S6a S18a S17
BPT-BPH-6 h, RPNF-BPH-6 h	1	S6
RPNF-BPH-12 h, RPNF-BPH-6 h	8	S13a S27a S24 S4a S18b S25 S18 S21
RPNF-BPH-6 h	3	S13 S25a S5

**Supple Table. 3h. List of RPS genes commonly down-regulated in response to GM in BPT and RPNF.**

Treatment	Total genes down-regulated	List of overlapping genes
BPT-GM-120 h, BPT-GM-24 h, RPNF-GM-120 h, RPNF-GM-24 h	14	S15a S30 S13 S20 S29 S23 S27a S3a S27 S28 S10 S5a S17 S15
BPT-GM-120 h, BPT-GM-24 h, RPNF-GM-24 h	1	S9-2
BPT-GM-24 h, RPNF-GM-120 h, RPNF-GM-24 h	1	S7
BPT-GM-120 h, RPNF-GM-120 h, RPNF-GM-24 h	12	S26 S13a S23a S24 S4a S9 S25 S6a S7a S6 S4 S21
BPT-GM-120 h, RPNF-GM-24 h	1	S5
RPNF-GM-120 h, RPNF-GM-24 h	5	S19 S18b S10a S18 S18a

BPT-GM-120 h	1	S25a
--------------	---	------

**Supplementary Table 4. Adjustment of P values of RPL genes calculated through two-way ANOVA by Bonferroni correction.**

Treatment	Gene	p-value	alpha altered	alpha critical	Significance
BPT-BPH-6 h	L3	0.056	0.0001	0.054463512	Non significant
	L4	0.043	7.67857E-05	0.042090191	significant
	L5	0.055	9.82143E-05	0.053517409	Non significant
	L6	0.052	9.28571E-05	0.050673425	Non significant
	L7	0.043	7.67857E-05	0.042090191	significant
	L8	0.0536	9.57143E-05	0.052191276	Non significant
	L10	0.041	7.32143E-05	0.040172311	significant
	L11	0.0234	4.17857E-05	0.023128821	significant
	L12	0.0159	2.83929E-05	0.015774484	significant
	L13a	0.054	9.64286E-05	0.05257036	Non significant
	L13b	0.062	0.000110714	0.060120339	Non significant
	L14	0.0334	5.96429E-05	0.032849342	significant
	L15	0.045	8.03571E-05	0.044004247	significant
	L18a	0.041	7.32143E-05	0.040172311	significant
	L18p	0.038	6.78571E-05	0.0372883	significant
	L19.3	0.045	8.03571E-05	0.044004247	significant
	L21.2	0.0458	8.17857E-05	0.044768799	significant
	L22	0.0446	7.96429E-05	0.043621741	significant
	L23A	0.0547	9.76786E-05	0.053233393	Non significant
	L24a	0.0518	0.0000925	0.050483523	Non significant
	L24b	0.0517	9.23214E-05	0.050388558	Non significant
	L26.1	0.0581	0.00010375	0.056447257	Non significant
	L27.3	0.432	0.000771429	0.350898847	significant
	L28	0.0514	9.17857E-05	0.050103606	Non significant
	L29	0.0521	9.30357E-05	0.050768362	Non significant
	L30e	0.0498	8.89286E-05	0.048582417	significant
	L31	0.0485	8.66071E-05	0.047344662	significant
	L32	0.0487	8.69643E-05	0.04753519	significant
	L34	0.0413	0.00007375	0.040460237	significant
	L35a.3	0.0475	8.48214E-05	0.046391448	significant
	L36.2	0.0487	8.69643E-05	0.04753519	significant
	L37	0.0674	0.000120357	0.065182594	Non significant
L38	0.034	6.07143E-05	0.033429493	significant	
L44	0.055	9.82143E-05	0.053517409	Non significant	
L51	0.056	0.0001	0.054463512	Non significant	
	L3	0.0475	8.48214E-05	0.046391448	significant
	L4	0.054	9.64286E-05	0.05257036	Non significant

BPT-BPH-12 h	L5	0.0642	0.000114643	0.062186034	Non significant
	L6	0.053	9.46429E-05	0.051622366	Non significant
	L7	0.231	0.0004125	0.20629836	significant
	L8	0.579	0.001033929	0.439709303	non significant
	L10	0.0511	0.00009125	0.049818568	Non significant
	L11	0.0438	7.82143E-05	0.042856272	significant
	L12	0.0549	9.80357E-05	0.053422746	Non significant
	L13a	0.0486	8.67857E-05	0.047439931	significant
	L13b	0.0457	8.16071E-05	0.044673264	significant
	L14	0.0622	0.000111071	0.060308317	Non significant
	L15	0.0248	4.42857E-05	0.024495542	significant
	L18a	0.0415	7.41071E-05	0.04065214	significant
	L18p	0.0487	8.69643E-05	0.04753519	significant
	L19.3	0.0458	8.17857E-05	0.044768799	significant
	L21.2	0.0481	8.58929E-05	0.04696349	significant
	L22	0.0477	8.51786E-05	0.046582167	significant
	L23A	0.0387	6.91071E-05	0.037962009	significant
	L24a	0.0621	0.000110893	0.060214333	Non significant
	L24b	0.0143	2.55357E-05	0.014198421	significant
	L26.1	0.0342	6.10714E-05	0.0336228	significant
	L27.3	0.0428	7.64286E-05	0.041898576	significant
	L28	0.0491	8.76786E-05	0.047916133	significant
	L29	0.0438	7.82143E-05	0.042856272	significant
	L30e	0.0593	0.000105893	0.05757896	Non significant
	L31	0.0451	8.05357E-05	0.044099849	significant
	L32	0.0473	8.44643E-05	0.046200691	significant
	L34	0.0515	9.19643E-05	0.050198599	Non significant
	L35a.3	0.0571	0.000101964	0.055503135	Non significant
	L36.2	0.0052	9.28571E-06	0.005186527	significant
	L37	0.0565	0.000100893	0.054936209	Non significant
L38	0.0453	8.08929E-05	0.044291026	significant	
L44	0.0507	9.05357E-05	0.049438385	Non significant	
L51	0.0526	9.39286E-05	0.051242904	Non significant	
BPT-GM-24 h	L3	0.0411	7.33929E-05	0.040268296	significant
	L4	0.0405	7.23214E-05	0.039692242	significant
	L5	0.0425	7.58929E-05	0.04161108	significant
	L6	0.0645	0.000115179	0.062467368	Non significant
	L7	0.0515	9.19643E-05	0.050198599	Non significant
	L8	0.0615	0.000109821	0.05965023	Non significant
	L10	0.0715	0.000127679	0.069007972	Non significant
	L11	0.0615	0.000109821	0.05965023	Non significant
	L12	0.0531	9.48214E-05	0.051717208	Non significant
	L13a	0.0321	5.73214E-05	0.031591155	significant



	L13b	0.0615	0.000109821	0.05965023	Non significant
	L14	0.0601	0.000107321	0.058332675	Non significant
	L15	0.0413	0.00007375	0.040460237	significant
	L18a	0.0572	0.000102143	0.05559759	Non significant
	L18p	0.0486	8.67857E-05	0.047439931	significant
	L19.3	0.0618	0.000110357	0.059932324	Non significant
	L21.2	0.0517	9.23214E-05	0.050388558	Non significant
	L22	0.0562	0.000100357	0.054652619	Non significant
	L23A	0.0211	3.76786E-05	0.020879342	significant
	L24a	0.0295	5.26786E-05	0.029069877	significant
	L24b	0.0372	6.64286E-05	0.036517771	significant
	L26.1	0.0493	8.80357E-05	0.048106548	significant
	L27.3	0.0483	0.00008625	0.047154095	significant
	L28	0.0421	7.51786E-05	0.041227619	significant
	L29	0.0571	0.000101964	0.055503135	Non significant
	L30e	0.0421	7.51786E-05	0.041227619	significant
	L31	0.0561	0.000100179	0.05455807	Non significant
	L32	0.0521	9.30357E-05	0.050768362	Non significant
	L34	0.0526	9.39286E-05	0.051242904	Non significant
	L35a.3	0.0513	9.16071E-05	0.050008603	Non significant
	L36.2	0.0415	7.41071E-05	0.04065214	significant
	L37	0.0408	7.28571E-05	0.039980312	significant
	L38	0.0531	9.48214E-05	0.051717208	Non significant
	L44	0.0476	0.000085	0.046486812	significant
	L51	0.0656	0.000117143	0.063498207	Non significant
BPT-GM-120 h	L3	0.0351	6.26786E-05	0.034492202	significant
	L4	0.0631	0.000112679	0.061153754	Non significant
	L5	0.0536	9.57143E-05	0.052191276	Non significant
	L6	0.0518	0.0000925	0.050483523	Non significant
	L7	0.0513	9.16071E-05	0.050008603	Non significant
	L8	0.0424	7.57143E-05	0.041515229	significant
	L10	0.064	0.000114286	0.061998431	Non significant
	L11	0.0417	7.44643E-05	0.040844005	significant
	L12	0.0581	0.00010375	0.056447257	Non significant
	L13a	0.0541	9.66071E-05	0.052665108	Non significant
	L13b	0.0602	0.0001075	0.058426847	Non significant
	L14	0.0623	0.00011125	0.060402292	Non significant
	L15	0.0518	0.0000925	0.050483523	Non significant
	L18a	0.0418	7.46429E-05	0.040939923	significant
	L18p	0.0493	8.80357E-05	0.048106548	significant
	L19.3	0.0716	0.000127857	0.069101079	Non significant
	L21.2	0.0215	3.83929E-05	0.021270926	significant

	L22	0.0625	0.000111607	0.060590214	Non significant
	L23A	0.0437	7.80357E-05	0.042760546	significant
	L24a	0.0481	8.58929E-05	0.04696349	significant
	L24b	0.0547	9.76786E-05	0.053233393	Non significant
	L26.1	0.0457	8.16071E-05	0.044673264	significant
	L27.3	0.0512	9.14286E-05	0.04991359	significant
	L28	0.0521	9.30357E-05	0.050768362	Non significant
	L29	0.0381	6.80357E-05	0.037384573	significant
	L30e	0.0316	5.64286E-05	0.031106802	significant
	L31	0.048	8.57143E-05	0.046868174	significant
	L32	0.0391	6.98214E-05	0.038346774	significant
	L34	0.0621	0.000110893	0.060214333	Non significant
	L35a.3	0.0361	6.44643E-05	0.035457288	significant
	L36.2	0.0485	8.66071E-05	0.047344662	significant
	L37	0.0561	0.000100179	0.05455807	Non significant
	L38	0.0321	5.73214E-05	0.031591155	significant
	L44	0.0319	5.69643E-05	0.031397443	significant
	L51	0.0421	7.51786E-05	0.041227619	significant
RPNF-BPH-6 h	L3	0.0491	8.76786E-05	0.047916133	significant
	L4	0.4723	0.000843393	0.376557837	significant
	L5	0.0681	0.000121607	0.065836816	Non significant
	L6	0.0677	0.000120893	0.065463031	Non significant
	L7	0.0218	3.89286E-05	0.021564513	significant
	L8	0.0567	0.00010125	0.055125222	Non significant
	L10	0.0513	9.16071E-05	0.050008603	Non significant
	L11	0.0351	6.26786E-05	0.034492202	significant
	L12	0.0495	8.83929E-05	0.048296924	significant
	L13a	0.0592	0.000105714	0.057484703	Non significant
	L13b	0.0711	0.000126964	0.068635454	Non significant
	L14	0.0534	9.53571E-05	0.052001677	Non significant
	L15	0.0395	7.05357E-05	0.038731385	significant
	L18a	0.0478	8.53571E-05	0.046677512	significant
	L18p	0.0514	9.17857E-05	0.050103606	Non significant
	L19.3	0.0361	6.44643E-05	0.035457288	significant
	L21.2	0.0442	7.89286E-05	0.043239083	significant
	L22	0.0589	0.000105179	0.057201876	Non significant
	L23A	0.0415	7.41071E-05	0.04065214	significant
	L24a	0.0565	0.000100893	0.054936209	Non significant
	L24b	0.0425	7.58929E-05	0.04161108	significant
	L26.1	0.0529	9.44643E-05	0.051527515	Non significant
	L27.3	0.0461	8.23214E-05	0.045055349	significant
	L28	0.0536	9.57143E-05	0.052191276	Non significant
	L29	0.0575	0.000102679	0.055880897	Non significant

	L30e	0.0441	0.00007875	0.043143395	significant
	L31	0.0391	6.98214E-05	0.038346774	significant
	L32	0.0435	7.76786E-05	0.042569064	significant
	L34	0.0391	6.98214E-05	0.038346774	significant
	L35a.3	0.0724	0.000129286	0.069845596	Non significant
	L36.2	0.0471	8.41071E-05	0.046009896	significant
	L37	0.0631	0.000112679	0.061153754	Non significant
	L38	0.0472	8.42857E-05	0.046105298	significant
	L44	0.0631	0.000112679	0.061153754	Non significant
	L51	0.0397	7.08929E-05	0.038923633	significant
RPNF-BPH-12 h	L3	0.0652	0.000116429	0.063123488	Non significant
	L4	0.0543	9.69643E-05	0.052854574	Non significant
	L5	0.0491	8.76786E-05	0.047916133	significant
	L6	0.0473	8.44643E-05	0.046200691	significant
	L7	0.0359	6.41071E-05	0.035264348	significant
	L8	0.0641	0.000114464	0.062092237	Non significant
	L10	0.0512	9.14286E-05	0.04991359	significant
	L11	0.0439	7.83929E-05	0.042951989	significant
	L12	0.0627	0.000111964	0.060778098	Non significant
	L13a	0.0491	8.76786E-05	0.047916133	significant
	L13b	0.0613	0.000109464	0.059462121	Non significant
	L14	0.0517	9.23214E-05	0.050388558	Non significant
	L15	0.0339	6.05357E-05	0.033332825	significant
	L18a	0.0389	6.94643E-05	0.038154411	significant
	L18p	0.0351	6.26786E-05	0.034492202	significant
	L19.3	0.0491	8.76786E-05	0.047916133	significant
	L21.2	0.0512	9.14286E-05	0.04991359	significant
	L22	0.0479	8.55357E-05	0.046772848	significant
	L23A	0.0665	0.00011875	0.064340779	Non significant
	L24a	0.0654	0.000116786	0.063310866	Non significant
	L24b	0.0461	8.23214E-05	0.045055349	significant
	L26.1	0.0725	0.000129464	0.069938619	Non significant
	L27.3	0.0458	8.17857E-05	0.044768799	significant
	L28	0.0651	0.00011625	0.063029784	Non significant
	L29	0.0417	7.44643E-05	0.040844005	significant
	L30e	0.0429	7.66071E-05	0.041994388	significant
	L31	0.0615	0.000109821	0.05965023	Non significant
	L32	0.0451	8.05357E-05	0.044099849	significant
	L34	0.0629	0.000112321	0.060965945	Non significant
	L35a.3	0.0517	9.23214E-05	0.050388558	Non significant
	L36.2	0.0524	9.35714E-05	0.051053115	Non significant
	L37	0.0517	9.23214E-05	0.050388558	Non significant

	L38	0.0419	7.48214E-05	0.041035831	significant
	L44	0.0401	7.16071E-05	0.039308014	significant
	L51	0.0391	6.98214E-05	0.038346774	significant
RPNF-GM-24 h	L3	0.0349	6.23214E-05	0.034299069	significant
	L4	0.0542	9.67857E-05	0.052759846	Non significant
	L5	0.0452	8.07143E-05	0.044195442	significant
	L6	0.0612	0.000109286	0.059368052	Non significant
	L7	0.0542	9.67857E-05	0.052759846	Non significant
	L8	0.0418	7.46429E-05	0.040939923	significant
	L10	0.0521	9.30357E-05	0.050768362	Non significant
	L11	0.0624	0.000111429	0.060496258	Non significant
	L12	0.0421	7.51786E-05	0.041227619	significant
	L13a	0.0426	7.60714E-05	0.041706922	significant
	L13b	0.0349	6.23214E-05	0.034299069	significant
	L14	0.0397	7.08929E-05	0.038923633	significant
	L15	0.0514	9.17857E-05	0.050103606	Non significant
	L18a	0.0573	0.000102321	0.055692035	Non significant
	L18p	0.0566	0.000101071	0.055030721	Non significant
	L19.3	0.0391	6.98214E-05	0.038346774	significant
	L21.2	0.0694	0.000123929	0.067050588	Non significant
	L22	0.0651	0.00011625	0.063029784	Non significant
	L23A	0.0519	9.26786E-05	0.050578479	Non significant
	L24a	0.0325	5.80357E-05	0.031978463	significant
	L24b	0.0561	0.000100179	0.05455807	Non significant
	L26.1	0.0614	0.000109643	0.05955618	Non significant
	L27.3	0.0321	5.73214E-05	0.031591155	significant
	L28	0.0612	0.000109286	0.059368052	Non significant
	L29	0.0577	0.000103036	0.056069721	Non significant
	L30e	0.0513	9.16071E-05	0.050008603	Non significant
	L31	0.0299	5.33929E-05	0.029458192	significant
	L32	0.0712	0.000127143	0.068728597	Non significant
	L34	0.0563	0.000100536	0.054747159	Non significant
	L35a.3	0.0381	6.80357E-05	0.037384573	significant
	L36.2	0.0398	7.10714E-05	0.039019743	significant
	L37	0.0513	9.16071E-05	0.050008603	Non significant
	L38	0.0624	0.000111429	0.060496258	Non significant
	L44	0.0528	9.42857E-05	0.051432654	Non significant
	L51	0.0472	8.42857E-05	0.046105298	significant
RPNF-GM-120 h	L3	0.0612	0.000109286	0.059368052	Non significant
	L4	0.0527	9.41071E-05	0.051337783	Non significant
	L5	0.0513	9.16071E-05	0.050008603	Non significant
	L6	0.0396	7.07143E-05	0.038827514	significant

L7	0.0651	0.00011625	0.063029784	Non significant
L8	0.0681	0.000121607	0.065836816	Non significant
L10	0.0419	7.48214E-05	0.041035831	significant
L11	0.0617	0.000110179	0.059838302	Non significant
L12	0.0419	7.48214E-05	0.041035831	significant
L13a	0.0621	0.000110893	0.060214333	Non significant
L13b	0.0451	8.05357E-05	0.044099849	significant
L14	0.0389	6.94643E-05	0.038154411	significant
L15	0.0316	5.64286E-05	0.031106802	significant
L18a	0.0531	9.48214E-05	0.051717208	Non significant
L18p	0.0381	6.80357E-05	0.037384573	significant
L19.3	0.0524	9.35714E-05	0.051053115	Non significant
L21.2	0.0461	8.23214E-05	0.045055349	significant
L22	0.0651	0.00011625	0.063029784	Non significant
L23A	0.0397	7.08929E-05	0.038923633	significant
L24a	0.0514	9.17857E-05	0.050103606	Non significant
L24b	0.0591	0.000105536	0.057390437	Non significant
L26.1	0.0391	6.98214E-05	0.038346774	significant
L27.3	0.0541	9.66071E-05	0.052665108	Non significant
L28	0.0349	6.23214E-05	0.034299069	significant
L29	0.0316	5.64286E-05	0.031106802	significant
L30e	0.0421	7.51786E-05	0.041227619	significant
L31	0.0582	0.000103929	0.056541617	Non significant
L32	0.0526	9.39286E-05	0.051242904	Non significant
L34	0.0486	8.67857E-05	0.047439931	significant
L35a.3	0.0612	0.000109286	0.059368052	Non significant
L36.2	0.0412	7.35714E-05	0.040364271	significant
L37	0.0615	0.000109821	0.05965023	Non significant
L38	0.0422	7.53571E-05	0.041323499	significant
L44	0.0433	7.73214E-05	0.042377543	significant
L51	0.0601	0.000107321	0.058332675	Non significant

**Supplementary Table. 5. Adjustment of *P* values of *RPS* genes calculated through two-way ANOVA by Bonferroni correction.**

Treatment	Gene	p-value	alpha altered	alpha critical	Significance
BPT-BPH-6 h	S3a	0.0451	8.05357E-05	0.044099849	significant
	S4	0.0662	0.000118214	0.064060006	Non significant
	S4a	0.0624	0.000111429	0.060496258	Non significant
	S5	0.0341	6.08929E-05	0.033526151	significant
	S5a	0.0712	0.000127143	0.068728597	Non significant
	S6	0.0516	9.21429E-05	0.050293584	Non significant
	S6a	0.0593	0.000105893	0.05757896	Non significant
	S7	0.0398	7.10714E-05	0.039019743	significant
	S7a	0.0495	8.83929E-05	0.048296924	significant

	S9	0.0491	8.76786E-05	0.047916133	significant
	S9-2	0.0396	7.07143E-05	0.038827514	significant
	S10	0.0416	7.42857E-05	0.040748077	significant
	S10a	0.0323	5.76786E-05	0.031784828	significant
	S13	0.0461	8.23214E-05	0.045055349	significant
	S13a	0.0531	9.48214E-05	0.051717208	Non significant
	S15	0.0658	0.0001175	0.063685511	Non significant
	S15a	0.0582	0.000103929	0.056541617	Non significant
	S17	0.0321	5.73214E-05	0.031591155	significant
	S18	0.0435	7.76786E-05	0.042569064	significant
	S18a	0.0391	6.98214E-05	0.038346774	significant
	S18b	0.0521	9.30357E-05	0.050768362	Non significant
	S19	0.0541	9.66071E-05	0.052665108	Non significant
	S20	0.0339	6.05357E-05	0.033332825	significant
	S21	0.0419	7.48214E-05	0.041035831	significant
	S23	0.0537	9.58929E-05	0.052286061	Non significant
	S23a	0.0281	5.01786E-05	0.027709553	significant
	S24	0.0675	0.000120536	0.065276082	Non significant
	S25	0.0681	0.000121607	0.065836816	Non significant
	S25a	0.0458	8.17857E-05	0.044768799	significant
	S26	0.0645	0.000115179	0.062467368	Non significant
	S27	0.0391	6.98214E-05	0.038346774	significant
	S27a	0.0433	7.73214E-05	0.042377543	significant
	S28	0.0615	0.000109821	0.05965023	Non significant
	S29	0.0381	6.80357E-05	0.037384573	significant
	S30	0.0714	0.0001275	0.068914857	Non significant
BPT-BPH-12 h	S3a	0.0591	0.000105536	0.057390437	Non significant
	S4	0.0632	0.000112857	0.061247644	Non significant
	S4a	0.0582	0.000103929	0.056541617	Non significant
	S5	0.0425	7.58929E-05	0.04161108	significant
	S5a	0.0327	5.83929E-05	0.032172059	significant
	S6	0.0612	0.000109286	0.059368052	Non significant
	S6a	0.0572	0.000102143	0.05559759	Non significant
	S7	0.0354	6.32143E-05	0.034781829	significant
	S7a	0.0671	0.000119821	0.064902073	Non significant
	S9	0.0316	5.64286E-05	0.031106802	significant
	S9-2	0.0521	9.30357E-05	0.050768362	Non significant
	S10	0.0327	5.83929E-05	0.032172059	significant
	S10a	0.0592	0.000105714	0.057484703	Non significant
	S13	0.0618	0.000110357	0.059932324	Non significant
	S13a	0.0472	8.42857E-05	0.046105298	significant
	S15	0.0378	0.0000675	0.037095726	significant
	S15a	0.0471	8.41071E-05	0.046009896	significant

	S17	0.0496	8.85714E-05	0.048392098	significant
	S18	0.0687	0.000122679	0.066397214	Non significant
	S18a	0.0635	0.000113393	0.06152926	Non significant
	S18b	0.0615	0.000109821	0.05965023	Non significant
	S19	0.0359	6.41071E-05	0.035264348	significant
	S20	0.0423	7.55357E-05	0.041419369	significant
	S21	0.0607	0.000108393	0.058897567	Non significant
	S23	0.0328	5.85714E-05	0.032268843	significant
	S23a	0.0436	7.78571E-05	0.042664809	significant
	S24	0.0553	0.00009875	0.053801339	Non significant
	S25	0.0409	7.30357E-05	0.040076316	significant
	S25a	0.0583	0.000104107	0.056635968	Non significant
	S26	0.0691	0.000123393	0.066770627	Non significant
	S27	0.0421	7.51786E-05	0.041227619	significant
	S27a	0.0642	0.000114643	0.062186034	Non significant
	S28	0.0371	0.00006625	0.036421412	significant
	S29	0.0523	9.33929E-05	0.050958207	Non significant
	S30	0.0582	0.000103929	0.056541617	Non significant
BPT-GM-24 h	S3a	0.0431	7.69643E-05	0.042185985	significant
	S4	0.0392	0.00007	0.038442941	significant
	S4a	0.0686	0.0001225	0.066303838	Non significant
	S5	0.0578	0.000103214	0.056164119	Non significant
	S5a	0.0619	0.000110536	0.060026336	Non significant
	S6	0.0439	7.83929E-05	0.042951989	significant
	S6a	0.0691	0.000123393	0.066770627	Non significant
	S7	0.0311	5.55357E-05	0.030622207	significant
	S7a	0.0415	7.41071E-05	0.04065214	significant
	S9	0.0639	0.000114107	0.061904616	Non significant
	S9-2	0.0295	5.26786E-05	0.029069877	significant
	S10	0.0432	7.71429E-05	0.042281769	significant
	S10a	0.0615	0.000109821	0.05965023	Non significant
	S13	0.0561	0.000100179	0.05455807	Non significant
	S13a	0.0435	7.76786E-05	0.042569064	significant
	S15	0.0435	7.76786E-05	0.042569064	significant
	S15a	0.0655	0.000116964	0.063404541	Non significant
	S17	0.0583	0.000104107	0.056635968	Non significant
	S18	0.0696	0.000124286	0.067237183	Non significant
	S18a	0.0484	8.64286E-05	0.047249383	significant
	S18b	0.0332	5.92857E-05	0.032655881	significant
	S19	0.0512	9.14286E-05	0.04991359	significant
	S20	0.0394	7.03571E-05	0.038635247	significant
	S21	0.0412	7.35714E-05	0.040364271	significant

	S23	0.0605	0.000108036	0.058709307	Non significant
	S23a	0.0452	8.07143E-05	0.044195442	significant
	S24	0.0395	7.05357E-05	0.038731385	significant
	S25	0.0615	0.000109821	0.05965023	Non significant
	S25a	0.0389	6.94643E-05	0.038154411	significant
	S26	0.0523	9.33929E-05	0.050958207	Non significant
	S27	0.0561	0.000100179	0.05455807	Non significant
	S27a	0.0415	7.41071E-05	0.04065214	significant
	S28	0.0587	0.000104821	0.057013278	Non significant
	S29	0.0661	0.000118036	0.063966396	Non significant
	S30	0.0603	0.000107679	0.05852101	Non significant
BPT-GM-120 h	S3a	0.0564	0.000100714	0.054841689	Non significant
	S4	0.0423	7.55357E-05	0.041419369	significant
	S4a	0.0472	8.42857E-05	0.046105298	significant
	S5	0.0486	8.67857E-05	0.047439931	significant
	S5a	0.0581	0.00010375	0.056447257	Non significant
	S6	0.0435	7.76786E-05	0.042569064	significant
	S6a	0.0532	0.000095	0.051812041	Non significant
	S7	0.0615	0.000109821	0.05965023	Non significant
	S7a	0.0571	0.000101964	0.055503135	Non significant
	S9	0.0591	0.000105536	0.057390437	Non significant
	S9-2	0.0651	0.00011625	0.063029784	Non significant
	S10	0.0412	7.35714E-05	0.040364271	significant
	S10a	0.0631	0.000112679	0.061153754	Non significant
	S13	0.0415	7.41071E-05	0.04065214	significant
	S13a	0.0612	0.000109286	0.059368052	Non significant
	S15	0.0528	9.42857E-05	0.051432654	Non significant
	S15a	0.0618	0.000110357	0.059932324	Non significant
	S17	0.0539	0.00009625	0.052475604	Non significant
	S18	0.0429	7.66071E-05	0.041994388	significant
	S18a	0.0612	0.000109286	0.059368052	Non significant
	S18b	0.0435	7.76786E-05	0.042569064	significant
	S19	0.0412	7.35714E-05	0.040364271	significant
	S20	0.0567	0.00010125	0.055125222	Non significant
	S21	0.0485	8.66071E-05	0.047344662	significant
	S23	0.0615	0.000109821	0.05965023	Non significant
	S23a	0.0425	7.58929E-05	0.04161108	significant
	S24	0.0651	0.00011625	0.063029784	Non significant
	S25	0.0435	7.76786E-05	0.042569064	significant
	S25a	0.0416	7.42857E-05	0.040748077	significant
	S26	0.0461	8.23214E-05	0.045055349	significant
	S27	0.0655	0.000116964	0.063404541	Non significant
	S27a	0.0365	6.51786E-05	0.035843053	significant



	S28	0.0615	0.000109821	0.05965023	Non significant
	S29	0.0451	8.05357E-05	0.044099849	significant
	S30	0.0568	0.000101429	0.055219715	Non significant
RPNF-BPH-6 h	S3a	0.0651	0.00011625	0.063029784	Non significant
	S4	0.0509	9.08929E-05	0.049628495	significant
	S4a	0.0345	6.16071E-05	0.033912687	significant
	S5	0.0566	0.000101071	0.055030721	Non significant
	S5a	0.0342	6.10714E-05	0.0336228	significant
	S6	0.0567	0.00010125	0.055125222	Non significant
	S6a	0.0456	8.14286E-05	0.044577719	significant
	S7	0.0415	7.41071E-05	0.04065214	significant
	S7a	0.0523	9.33929E-05	0.050958207	Non significant
	S9	0.0652	0.000116429	0.063123488	Non significant
	S9-2	0.0468	8.35714E-05	0.045723632	significant
	S10	0.0615	0.000109821	0.05965023	Non significant
	S10a	0.0545	9.73214E-05	0.053044003	Non significant
	S13	0.0528	9.42857E-05	0.051432654	Non significant
	S13a	0.0639	0.000114107	0.061904616	Non significant
	S15	0.0522	9.32143E-05	0.050863289	Non significant
	S15a	0.0715	0.000127679	0.069007972	Non significant
	S17	0.0563	0.000100536	0.054747159	Non significant
	S18	0.0359	6.41071E-05	0.035264348	significant
	S18a	0.0481	8.58929E-05	0.04696349	significant
	S18b	0.0437	7.80357E-05	0.042760546	significant
	S19	0.0375	6.69643E-05	0.036806792	significant
	S20	0.0528	9.42857E-05	0.051432654	Non significant
	S21	0.0458	8.17857E-05	0.044768799	significant
	S23	0.0332	5.92857E-05	0.032655881	significant
	S23a	0.0486	8.67857E-05	0.047439931	significant
	S24	0.0687	0.000122679	0.066397214	Non significant
	S25	0.0618	0.000110357	0.059932324	Non significant
	S25a	0.0545	9.73214E-05	0.053044003	Non significant
	S26	0.0625	0.000111607	0.060590214	Non significant
	S27	0.0349	6.23214E-05	0.034299069	significant
	S27a	0.0535	9.55357E-05	0.052096482	Non significant
	S28	0.0438	7.82143E-05	0.042856272	significant
	S29	0.0655	0.000116964	0.063404541	Non significant
	S30	0.0489	8.73214E-05	0.047725681	significant
RPNF-BPH-12 h	S3a	0.0546	0.0000975	0.053138703	Non significant
	S4	0.0478	8.53571E-05	0.046677512	significant
	S4a	0.0645	0.000115179	0.062467368	Non significant

	S5	0.0342	6.10714E-05	0.0336228	significant
	S5a	0.0556	9.92857E-05	0.054085184	Non significant
	S6	0.0416	7.42857E-05	0.040748077	significant
	S6a	0.0652	0.000116429	0.063123488	Non significant
	S7	0.0581	0.00010375	0.056447257	Non significant
	S7a	0.0515	9.19643E-05	0.050198599	Non significant
	S9	0.0491	8.76786E-05	0.047916133	significant
	S9-2	0.0425	7.58929E-05	0.04161108	significant
	S10	0.0652	0.000116429	0.063123488	Non significant
	S10a	0.0451	8.05357E-05	0.044099849	significant
	S13	0.0568	0.000101429	0.055219715	Non significant
	S13a	0.0428	7.64286E-05	0.041898576	significant
	S15	0.0518	0.0000925	0.050483523	Non significant
	S15a	0.0565	0.000100893	0.054936209	Non significant
	S17	0.0421	7.51786E-05	0.041227619	significant
	S18	0.0514	9.17857E-05	0.050103606	Non significant
	S18a	0.0589	0.000105179	0.057201876	Non significant
	S18b	0.0419	7.48214E-05	0.041035831	significant
	S19	0.0751	0.000134107	0.072353955	Non significant
	S20	0.0535	9.55357E-05	0.052096482	Non significant
	S21	0.0741	0.000132321	0.071425721	Non significant
	S23	0.0455	0.00008125	0.044482164	significant
	S23a	0.0655	0.000116964	0.063404541	Non significant
	S24	0.0651	0.00011625	0.063029784	Non significant
	S25	0.0481	8.58929E-05	0.04696349	significant
	S25a	0.0856	0.000152857	0.082044664	Non significant
	S26	0.0681	0.000121607	0.065836816	Non significant
	S27	0.0432	7.71429E-05	0.042281769	significant
	S27a	0.0316	5.64286E-05	0.031106802	significant
	S28	0.0551	9.83929E-05	0.053612061	Non significant
	S29	0.0623	0.00011125	0.060402292	Non significant
	S30	0.0547	9.76786E-05	0.053233393	Non significant
RPNF-GM-24 h	S3a	0.0415	7.41071E-05	0.04065214	significant
	S4	0.0631	0.000112679	0.061153754	Non significant
	S4a	0.0471	8.41071E-05	0.046009896	significant
	S5	0.0685	0.000122321	0.066210452	Non significant
	S5a	0.0451	8.05357E-05	0.044099849	significant
	S6	0.0655	0.000116964	0.063404541	Non significant
	S6a	0.0419	7.48214E-05	0.041035831	significant
	S7	0.0421	7.51786E-05	0.041227619	significant
	S7a	0.0537	9.58929E-05	0.052286061	Non significant
	S9	0.0719	0.000128393	0.069380342	Non significant
	S9-2	0.0611	0.000109107	0.059273974	Non significant

	S10	0.0517	9.23214E-05	0.050388558	Non significant
	S10a	0.0546	0.0000975	0.053138703	Non significant
	S13	0.0618	0.000110357	0.059932324	Non significant
	S13a	0.0563	0.000100536	0.054747159	Non significant
	S15	0.0594	0.000106071	0.057673207	Non significant
	S15a	0.0543	9.69643E-05	0.052854574	Non significant
	S17	0.0506	9.03571E-05	0.049343315	significant
	S18	0.0386	6.89286E-05	0.037865794	significant
	S18a	0.0587	0.000104821	0.057013278	Non significant
	S18b	0.0514	9.17857E-05	0.050103606	Non significant
	S19	0.0638	0.000113929	0.061810791	Non significant
	S20	0.0718	0.000128214	0.069287264	Non significant
	S21	0.0631	0.000112679	0.061153754	Non significant
	S23	0.0565	0.000100893	0.054936209	Non significant
	S23a	0.0428	7.64286E-05	0.041898576	significant
	S24	0.0535	9.55357E-05	0.052096482	Non significant
	S25	0.0618	0.000110357	0.059932324	Non significant
	S25a	0.0536	9.57143E-05	0.052191276	Non significant
	S26	0.0551	9.83929E-05	0.053612061	Non significant
	S27	0.0428	7.64286E-05	0.041898576	significant
	S27a	0.0645	0.000115179	0.062467368	Non significant
	S28	0.0551	9.83929E-05	0.053612061	Non significant
	S29	0.0441	0.00007875	0.043143395	significant
	S30	0.0528	9.42857E-05	0.051432654	Non significant
RPNF-GM-120 h	S3a	0.0632	0.000112857	0.061247644	Non significant
	S4	0.0418	7.46429E-05	0.040939923	significant
	S4a	0.0634	0.000113214	0.061435397	Non significant
	S5	0.0471	8.41071E-05	0.046009896	significant
	S5a	0.0518	0.0000925	0.050483523	significant
	S6	0.0682	0.000121786	0.065930239	Non significant
	S6a	0.0453	8.08929E-05	0.044291026	significant
	S7	0.0631	0.000112679	0.061153754	Non significant
	S7a	0.0423	7.55357E-05	0.041419369	significant
	S9	0.0721	0.00012875	0.069566472	Non significant
	S9-2	0.0471	8.41071E-05	0.046009896	significant
	S10	0.0541	9.66071E-05	0.052665108	Non significant
	S10a	0.0418	7.46429E-05	0.040939923	significant
	S13	0.0315	0.00005625	0.031009902	significant
	S13a	0.0402	7.17857E-05	0.039404086	significant
	S15	0.0537	9.58929E-05	0.052286061	Non significant
	S15a	0.0471	8.41071E-05	0.046009896	significant
	S17	0.0358	6.39286E-05	0.035167863	significant

S18	0.0571	0.000101964	0.055503135	significant
S18a	0.0452	8.07143E-05	0.044195442	significant
S18b	0.0514	9.17857E-05	0.050103606	Non significant
S19	0.0435	7.76786E-05	0.042569064	significant
S20	0.0451	8.05357E-05	0.044099849	significant
S21	0.0489	8.73214E-05	0.047725681	significant
S23	0.0441	0.00007875	0.043143395	significant
S23a	0.0615	0.000109821	0.05965023	Non significant
S24	0.0319	5.69643E-05	0.031397443	significant
S25	0.0458	8.17857E-05	0.044768799	significant
S25a	0.0612	0.000109286	0.059368052	Non significant
S26	0.0464	8.28571E-05	0.045341813	significant
S27	0.0423	7.55357E-05	0.041419369	significant
S27a	0.0579	0.000103393	0.056258508	Non significant
S28	0.0518	0.0000925	0.050483523	significant
S29	0.0482	8.60714E-05	0.047058797	significant
S30	0.0491	8.76786E-05	0.047916133	significant