

Figures

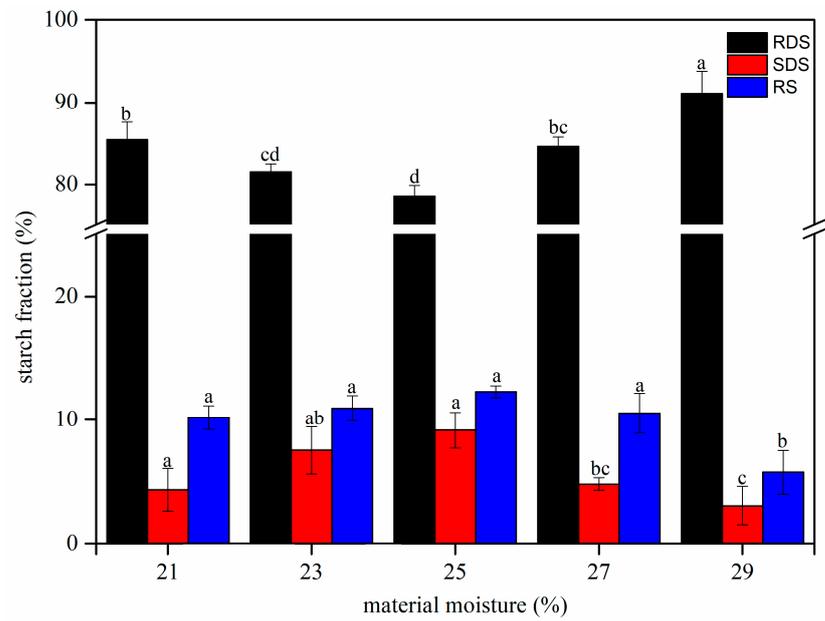


Figure S1. Starch digestibility in vitro extruded cooking rice with different material moisture contents. Values are means \pm SD. Values followed by the same letters in the same column are not significantly different ($p \leq 0.05$).

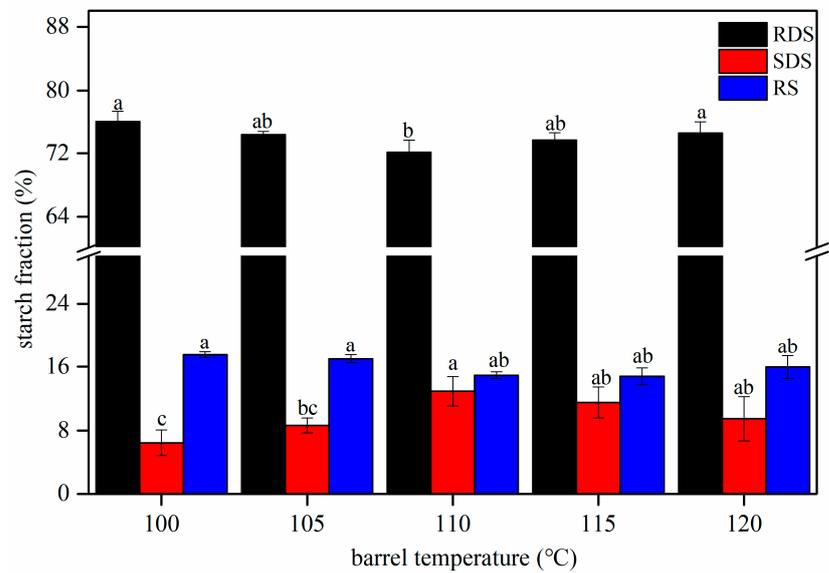


Figure S2. Starch digestibility in vitro extruded cooking rice with different barrel temperatures. Values are means \pm SD. Values followed by the same letters in the same column are not significantly different ($p \leq 0.05$).

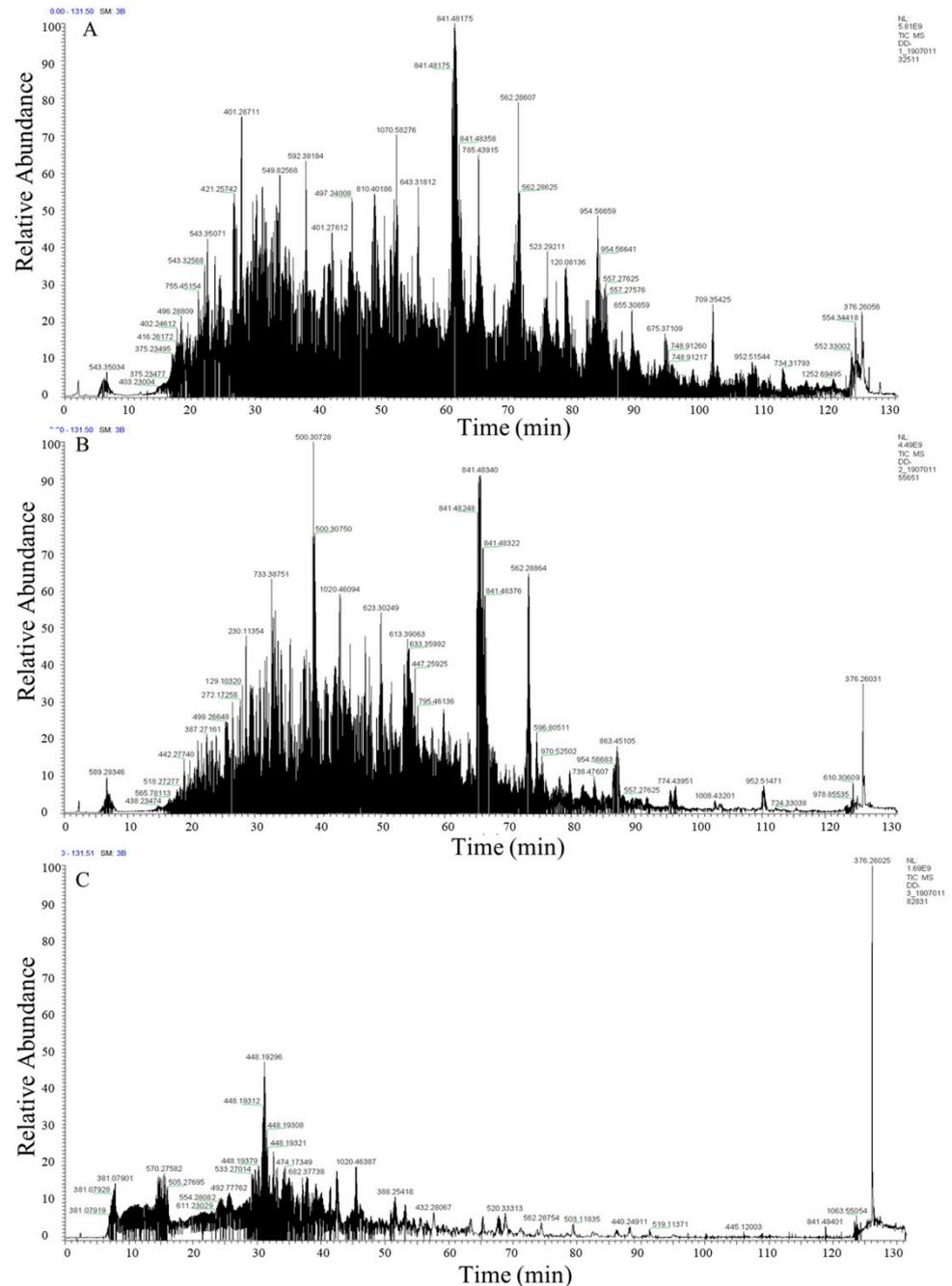


Figure S3. Peptides composition and amino acid sequences of samples tested by LC-MS/MS. (A) The total Ions Chromatography of SP, (B) the total Ions Chromatography of extruded rice (6% SP), (C) the total Ions Chromatography of extruded rice (0% SP).

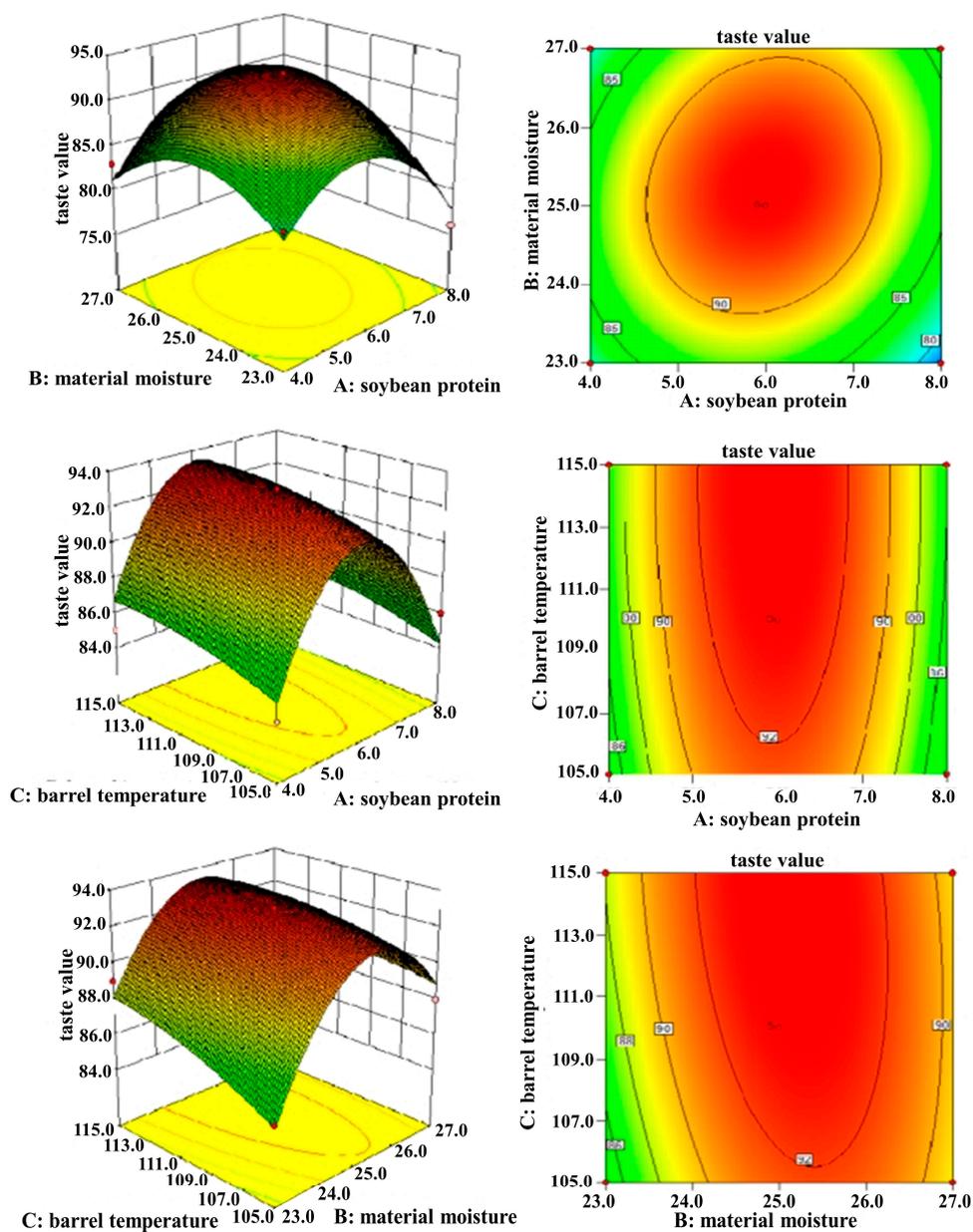


Figure S4. Response surface plot and contour plot showing the interactive effects of soybean protein content, moisture content, and barrel temperature on taste value.

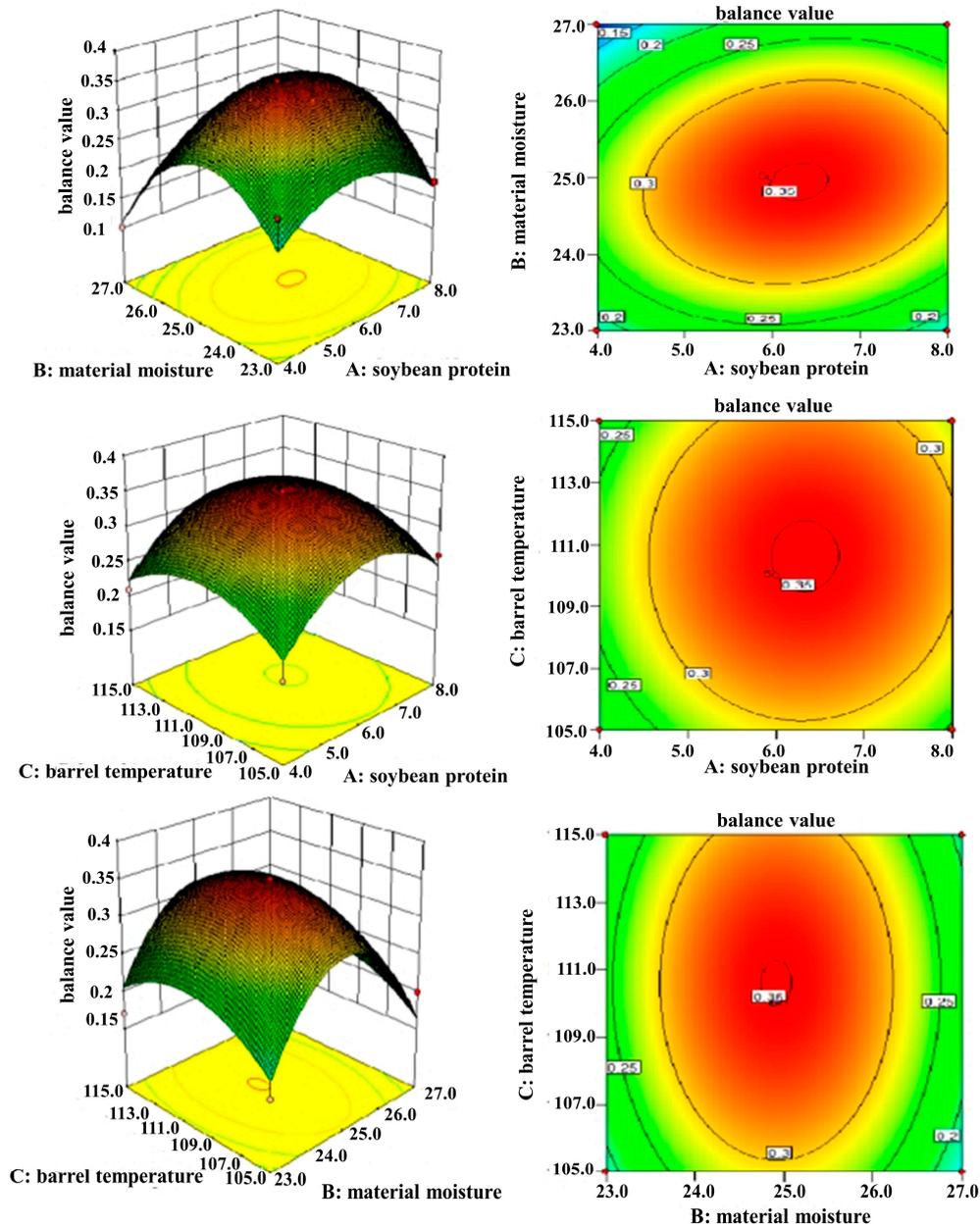


Figure S5. Response surface plot and contour plot showing the interactive effects of soybean protein content, moisture content, and barrel temperature on balance value.

Tables

Table S1. Factors and levels of response surface experiments.

| Factor | Code levels | | |
|------------------------|-------------|---|---|
| A (soybean protein) | -1 | 0 | 1 |
| B (material moisture) | -1 | 0 | 1 |
| C (barrel temperature) | -1 | 0 | 1 |

"-1" - the minimum value, "0" - the suitable value, and "1" - maximum value of the independent variables.

Table S2. Factors and levels in the response surface design arrangement and experimental results.

| Model No. | Soyben protein (%) | material moisture (%) | Barrel temperature (°C) | Taste value | Balance value |
|-----------|--------------------|-----------------------|-------------------------|-------------|---------------|
| 1 | 0 | 0 | 0 | 93 | 0.35 |
| 2 | -1 | -1 | 0 | 83 | 0.23 |
| 3 | 1 | -1 | 0 | 76 | 0.18 |
| 4 | 0 | 1 | -1 | 88 | 0.2 |
| 5 | 1 | 0 | 1 | 87 | 0.3 |
| 6 | -1 | 0 | -1 | 84 | 0.18 |
| 7 | 1 | 0 | -1 | 86 | 0.26 |
| 8 | 0 | 0 | 0 | 93 | 0.35 |
| 9 | -1 | 0 | 1 | 85 | 0.21 |
| 10 | -1 | 1 | 0 | 83 | 0.1 |
| 11 | 0 | 0 | 0 | 93 | 0.35 |
| 12 | 0 | -1 | -1 | 85 | 0.16 |
| 13 | 0 | -1 | 1 | 89 | 0.17 |
| 14 | 0 | 1 | 1 | 89 | 0.21 |
| 15 | 0 | 0 | 0 | 93 | 0.35 |
| 16 | 1 | 1 | 0 | 83 | 0.15 |
| 17 | 0 | 0 | 0 | 93 | 0.35 |

Soybean protein (%), -1 - 4%, 0 - 6%, 1 - 8%; material moisture (%), -1 - 23%, 0 - 25%, 1 - 27% ; barrel temperature, -1 - 105 °C, 0 - 110 °C, 1 - 115 °C.

Table S3. Variance analysis of items of regression equation on taste value.

| Item | Sum Square | Degree of Freedom | Mean square | F-value | P-value | Significance |
|----------------------|------------|-------------------|-------------|---------|---------|--------------|
| Model | 356.81 | 9 | 39.65 | 15.21 | 0.0008 | * |
| A-soybean protein | 1.12 | 1 | 1.12 | 0.43 | 0.5322 | ** |
| B-material moisture | 12.50 | 1 | 12.50 | 4.79 | 0.0647 | ** |
| C-barrel temperature | 6.13 | 1 | 6.13 | 2.35 | 0.1692 | ** |
| AB | 12.25 | 1 | 12.25 | 4.70 | 0.0669 | ** |
| AC | 0.00 | 1 | 0.00 | 0.00 | 1.0000 | ** |
| BC | 2.25 | 1 | 2.25 | 0.86 | 0.3838 | ** |
| A ² | 206.32 | 1 | 206.32 | 79.13 | <0.0001 | * |
| B ² | 95.00 | 1 | 95.00 | 36.44 | 0.0005 | * |
| C ² | 1.05 | 1 | 1.05 | 0.40 | 0.5454 | ** |
| Residual | 18.25 | 7 | 2.61 | | | |
| Lack of fit | 18.25 | 3 | 6.08 | | | |
| Pure Error | 0.00 | 4 | 0.00 | | | |
| Total | 375.06 | 16 | | | | |

*represents extremely significant difference ($p \leq 0.05$), **represents no significant difference ($p > 0.05$).

Table S4. Variance analysis of items of regression equation on balance value.

| Item | Sum Square | Degree of Freedom | Mean square | F-value | P-value | Significance |
|----------------------|------------|-------------------|-------------|---------|---------|--------------|
| Model | 0.10 | 9 | 0.011 | 7.20 | 0.0082 | * |
| A-soybean protein | 3.613E-003 | 1 | 3.613E-003 | 2.27 | 0.1754 | ** |
| B-material moisture | 8.000E-004 | 1 | 8.000E-004 | 0.50 | 0.5010 | ** |
| C-barrel temperature | 1.013E-003 | 1 | 1.013E-003 | 0.64 | 0.4510 | ** |
| AB | 2.500E-003 | 1 | 2.500E-003 | 1.57 | 0.2500 | ** |
| AC | 2.500E-005 | 1 | 2.500E-005 | 0.016 | 0.9037 | ** |
| BC | 0.000 | 1 | 0.000 | 0.000 | 1.0000 | ** |
| A ² | 0.018 | 1 | 0.018 | 11.63 | 0.0113 | * |
| B ² | 0.059 | 1 | 0.059 | 37.36 | 0.0005 | * |
| C ² | 9.007E-003 | 1 | 9.007E-003 | 5.67 | 0.048 | * |
| Residual | 0.011 | 7 | 1.589E-003 | | | |
| Lack of fit | 0.011 | 3 | 3.708E-003 | | | |
| Pure Error | 0.000 | 4 | 0.000 | | | |
| Total | 0.11 | 16 | | | | |

*represents extremely significant difference ($p \leq 0.05$), **represents no significant difference ($p > 0.05$).

Table S5. Peptides composition and amino acid sequences of samples tested by LC-MS/MS.

| NO | Soybean protein | | Extruded rice (6% soybean protein) | | Extruded rice (0% soybean protein) | |
|----|-----------------------|-----------|------------------------------------|-----------|------------------------------------|----------------|
| | Accession | Sequence | Accession | Sequence | Accession | Sequence |
| 1 | I1NGH2 I1NGH2 | PVKNKGRF | I1NGH2 I1NGH2 | EFNSKPNT | I1LXD1 I1LXD1 | GQTPLFPR |
| 2 | I1NGH2 I1NGH2 | REEQEWPR | A0A0R0GMV1 A0A0R0GMV1 | NQLDQNPR | A0A0R0KKD6 A0A0R0KKD6 | NQLDQM PR |
| 3 | B3TDK5 B3TDK5 | TIMPLPVV | A0A0R0KKD6 A0A0R0KKD6 | RSQSDNFE | A0A0R0GMV1 A0A0R0GMV1 | RADFYNP K |
| 4 | A0A0R0F1F3 A0A0R0F1F3 | DKPNGPVW | D6PAW7 D6PAW7 | ISPLPVLK | I1NGH2 I1NGH2 | RVPSGTTY |
| 5 | B3TDK5 B3TDK5 | TIMPLPVV | I1LXD1 I1LXD1 | GQTPLFPR | A0A0R0KKD6 A0A0R0KKD6 | EPPQQPQ QR |
| 6 | F7J077 F7J077 | LGEEEEQRQ | I1NGH2 I1NGH2 | REEQEWPR | A0A0R0GMV1 A0A0R0GMV1 | GNPDIEH PE |
| 7 | A0A0R0GMV1 A0A0R0GMV1 | YRNGIYSPH | I1NGH2 I1NGH2 | PVKNKGRF | A0A0R0KK84 A0A0R0KK84 | TNDRPSIG N |
| 8 | A0A0R0KKD6 A0A0R0KKD6 | GERVFDGEL | I1LXD1 I1LXD1 | GQTPLFPRI | I1NGH2 I1NGH2 | AIPVNKPG GR |
| 9 | A0A0R0GMV1 A0A0R0GMV1 | RSPDDERKQ | C6EVF9 C6EVF9 | SEYPPLGRF | I1NGH2 I1NGH2 | EQEWPRK EE |
| 10 | I1NGH2 I1NGH2 | ISKEQIRAL | I1KYW3 I1KYW3 | DVDGDPIRN | A0A0R0GMV1 A0A0R0GMV1 | NALEPDH RVE |
| 11 | A0A0R0GMV1 A0A0R0GMV1 | NRNGLHLP | I1LHP6 I1LHP6 | RSPEDSIIF | O64458 O64458 | TDDDYPY RAK |
| 12 | D6PAW3 D6PAW3 | TIIPLVIK | Q9XET1 Q9XET1 | RLPEDANPN | A0A0R0F1F3 A0A0R0F1F3 | GHAPISLP NQ |
| 13 | F7J077 F7J077 | FENQNGRIR | A0A0R0KKD6 A0A0R0KKD6 | GEDKGAIVT | A0A0R0GMV1 A0A0R0GMV1 | HLPSSYPY PQ |

| | | | | | | |
|----|---------------------------|-------------|---------------------------|------------|---------------------------|------------------|
| 14 | I1NGH2 I1NGH2 | FKNQYGRIR | A0A0R0KKD6 A0 A0R0KKD6 | RVFDGELQE | I1NGH2 I1NGH2 | SEESDSE LR |
| 15 | A0A0R0KKD6 A0 A0R0KKD6 | NQLDQMPPR | A0A0R0KKD6 A0 A0R0KKD6 | ENQLDQMPPR | A0A0R0KKD6 A0 | NALKPDPN RIE |
| 16 | A0A0R0GMV1 A 0A0R0GMV1 | GGLSVISPK | I1NGH2 I1NGH2 | EITPEKNPQ | A0A0R0KKD6 A0 | REGDLIAV PT |
| 17 | I1L862 I1L862 | RDENDKLFL | I1LE57 I1LE57 | ALPADLLKR | A0A0R0KKD6 A0 | EPPQQPQ QRGQ |
| 18 | A0A0R0GMV1 A 0A0R0GMV1 | ALEPDHRVE | A0A0R0KKD6 A0 A0R0KKD6 | GERVFDGEL | I1NGH2 I1NGH2 | AIPVNKP GRFE |
| 19 | Q9S9D0 Q9S9D0 | LPSYSPYPR | A0A0R0KKD6 A0 A0R0KKD6 | SVIKPPTDE | A0A0R0GMV1 A 0A0R0GMV1 | RSPDDER KQIVT |
| 20 | A0A0R0F1F3 A0 A0R0F1F3 | DKPNGPVWR | I1NGH2 I1NGH2 | PVNKPGRFE | | |
| 21 | I1NGH2 I1NGH2 | AIPVNKPGR | I1NGH2 I1NGH2 | AIPVNKPGR | | |
| 22 | D6PAW7 D6PAW 7 | DHHDPIMPY | I1NGH2 I1NGH2 | LRVPSGTTY | | |
| 23 | A0A0R0KKD6 A0 A0R0KKD6 | DFPALSCLR | A0A0R0GMV1 A 0A0R0GMV1 | DVFRAIPSE | | |
| 24 | I1NGH2 I1NGH2 | RQFPFPRPPH | Q7XAC5 Q7XAC5 | GRVGEVISR | | |
| 25 | I1NGH2 I1NGH2 | ITPEKNPQLR | I1N747 I1N747 | ARFEPPTYE | | |
| 26 | A0A0R0KKD6 A0 A0R0KKD6 | LVPPQESQKR | F7J077 F7J077 | LGEEEEQRQ | | |
| 27 | Q8LJW0 Q8LJW0 | TIRYPDPLIR | I1NGH2 I1NGH2 | ISKEQIRAL | | |
| 28 | F7J077 F7J077 | AIPVNKPGRY | Q9S9D0 Q9S9D0 | LPSYSPYPR | | |
| 29 | A0A0R0F1F3 A0 A0R0F1F3 | GHAPISLPNQ | F7J077 F7J077 | VREDENNPF | | |
| 30 | A0A0R0HYM3 A 0A0R0HYM3 | AIPVNKPGNF | Q9LD16 Q9LD16 | NELDKGIGT | | |
| 31 | A0A0R0KK84 A0 A0R0KK84 | APAMRKPOQE | A0A0R0KKD6 A0 A0R0KKD6 | NQLDQMPPR | | |
| 32 | A0A0R0KKD6 A0 A0R0KKD6 | LVPPQESQKR | A0A0R0F1F3 A0A 0R0F1F3 | DKPNGPVWR | | |
| 33 | C6T8D8 C6T8D8 | KEAGVLPGIK | A0A0R0KKD6 A0 A0R0KKD6 | EPPQQPQQR | | |
| 34 | D6PAW7 D6PAW 7 | GGNDTFPYPR | A0A0R0GMV1 A 0A0R0GMV1 | YRNGIYSPH | | |
| 35 | F7J077 F7J077 | KQKQEEEEPLE | F7J077 F7J077 | EQRQQEGVIV | | |
| 36 | I1NGH2 I1NGH2 | EITPEKNPQL | Q9XET1 Q9XET1 | RLPEDANPNQ | | |
| 37 | P11828 GLYG3 | LVPPKESQRR | A0A0R0KKD6 A0 A0R0KKD6 | YNNEDTPVVA | | |
| 38 | I1NGH2 I1NGH2 | AIPVNKPGRF | C6EVF9 C6EVF9 | IGTVPVGRVE | | |
| 39 | A0A0R0KKD6 A0 A0R0KKD6 | REGDLIAVPT | A0A0R0EDR0 A0 A0R0EDR0 | RYPNDPYEQQ | | |
| 40 | A0A0R0HVK7 A0 A0R0HVK7 | NSLPKPYLPR | Q9S9D0 Q9S9D0 | HLPSYSPYPR | | |
| 41 | A0A0R0KK84 A0 A0R0KK84 | PFSFLVPPQE | O22121 O22121 | FGEEEEQRQQ | | |
| 42 | I1KC69 I1KC69 | GHRNPPEIPW | I1LE57 I1LE57 | ALPADLLKRG | | |
| 43 | A0A0R0KK84 A0 A0R0KK84 | KTNDRPSIGN | A0A0R0KKD6 A0 A0R0KKD6 | RVFDGELQEG | | |

| | | | | |
|----|-----------------------|--------------|-----------------------|-------------|
| 44 | F7J077 F7J077 | LGEEEEQRQQ | A0A0R0GMV1 A0A0R0GMV1 | GNAVFDGELR |
| 45 | Q9S9D0 Q9S9D0 | HLPSYSPYPR | D6PAW3 D6PAW3 | YEGGIKLPRD |
| 46 | A0A0R0KKD6 A0A0R0KKD6 | NALKPDNRIE | A0A0R0KKD6 A0A0R0KKD6 | NNEDTPVVAV |
| 47 | A0A0R0GMV1 A0A0R0GMV1 | NALEPDHRVE | A0A0R0F1F3 A0A0R0F1F3 | MDKPNGPVWR |
| 48 | A0A0R0KKD6 A0A0R0KKD6 | NQLDQMPPRF | F7J077 F7J077 | VREDENNPYF |
| 49 | I1L862 I1L862 | LVIDGRGHLQ | F7J077 F7J077 | LGEEEEQRQQ |
| 50 | I1MKY2 I1MKY2 | WDSIPIVPIR | A0A0R0GMV1 A0A0R0GMV1 | HLPSYSPYPQ |
| 51 | K7LNL2 K7LNL2 | IHEPPYFRDM | Q9S9D0 Q9S9D0 | FNNQLDQTPR |
| 52 | F7J077 F7J077 | RFNKRSPQLE | A0A0R0GMV1 A0A0R0GMV1 | NQLDQNPRVF |
| 53 | I1LXD1 I1LXD1 | VAPPQKGEVR | A0A0R0HEM1 A0A0R0HEM1 | VVAPPERKYS |
| 54 | F7J077 F7J077 | AGEKDNVVRQ | A0A0R0GMV1 A0A0R0GMV1 | AVFDGELRRG |
| 55 | I1LXD1 I1LXD1 | GQTPLFPRIL | A0A0R0KKD6 A0A0R0KKD6 | ENQLDQMPPR |
| 56 | Q9S9D0 Q9S9D0 | GQHQQEIEEE | O64458 O64458 | TDDDYPIYAK |
| 57 | A0A0R0KKD6 A0A0R0KKD6 | FREGDLIAVPT | A0A0R0GMV1 A0A0R0GMV1 | NALEPDHRVE |
| 58 | A0A0R0KK84 A0A0R0KK84 | APAMRKPPQEE | A0A0R0KK84 A0A0R0KK84 | KTNDRPSIGN |
| 59 | A0A0R0KKD6 A0A0R0KKD6 | RRPSYTNGPQE | I1NGH2 I1NGH2 | AIPVNKPGRF |
| 60 | I1NGH2 I1NGH2 | LAIPVNKPGRF | I1NGH2 I1NGH2 | SEESDSELR |
| 61 | I1KYW3 I1KYW3 | KDISEGPPAIK | I1NGH2 I1NGH2 | RQFPFPRPPH |
| 62 | I1NGH2 I1NGH2 | EITPEKNPQLR | I1NGH2 I1NGH2 | ITPEKNPQLR |
| 63 | I1NGH2 I1NGH2 | AIPVNKPGRFE | Q9LD16 Q9LD16 | RVSDDEFNNY |
| 64 | Q9FZP9 Q9FZP9 | RHKKNKPPHFN | A0A0R0F1F3 A0A0R0F1F3 | GHAPISLPNQ |
| 65 | A0A0R0F1F3 A0A0R0F1F3 | DKPNGPVWRIS | A0A0R0KKD6 A0A0R0KKD6 | GERVFDGELQ |
| 66 | A0A0R0GZS9 A0A0R0GZS9 | DLDLLPLPSPF | F7J077 F7J077 | AIPVNKPGRY |
| 67 | I1NGH2 I1NGH2 | RQFPFPRPPHQ | A0A0R0KKD6 A0A0R0KKD6 | NALKPDNRIE |
| 68 | A0A0R0KKD6 A0A0R0KKD6 | SLENQLDQMPPR | A0A0R0KKD6 A0A0R0KKD6 | REGDLIAVPT |
| 69 | Q9S9D0 Q9S9D0 | LKDVFRAPSE | I1K671 I1K671 | DLSGIPPAPR |
| 70 | A0A0R0KKD6 A0A0R0KKD6 | GERVFDGELQE | I1LHP6 I1LHP6 | RSPEDSIIFR |
| 71 | I1NGH2 I1NGH2 | HEQREEQEWPR | I1L862 I1L862 | FFGPGGRDPES |
| 72 | I1LS06 I1LS06 | ADRFPPNPMPE | I1M3W1 I1M3W1 | SGPREDATRIG |
| 73 | I1KMT6 I1KMT6 | VGVTGLTGLSL | F7J077 F7J077 | LGEEEEQRQQE |
| 74 | C6EVF9 C6EVF9 | VIDAPGHRDFIK | I1NGH2 I1NGH2 | HEQREEQEWPR |
| 75 | A0A0R0KK84 A0A0R0KK84 | APAMRKPPQEE | Q9S9D0 Q9S9D0 | NFNNQLDQTPR |

| | | | | |
|-----|-----------------------|---------------|-----------------------|---------------|
| 76 | RRPSYTNGPQE | RRPSYTNGPQE | O64458 O64458 | HAIATGDLVSL |
| 77 | Q9S9D0 Q9S9D0 | HLPSYSPYPRM | A0A0R0KKD6 A0A0R0KKD6 | NGERVFDGELQ |
| 78 | I1NGH2 I1NGH2 | EITPEKNPQLR | A0A0R0GZS9 A0A0R0GZS9 | LDVVDPQPGGR |
| 79 | D6PAW7 D6PAW7 | DLGDPDKGENH | A0A0R0F1F3 A0A0R0F1F3 | VMDKPNGPVWR |
| 80 | Q9S9D0 Q9S9D0 | LHLPSYSPYPR | Q9S9D0 Q9S9D0 | LKDVFRAIPSE |
| 81 | A0A0R0F1F3 A0A0R0F1F3 | DKPNGPVWRIS | A0A0R0KKD6 A0A0R0KKD6 | GERVFDGELQE |
| 82 | F7J077 F7J077 | RNP1YSNFGKF | C6EVF9 C6EVF9 | GIGTVPVGRVE |
| 83 | I1NGH2 I1NGH2 | FEITPEKNPQLR | A0A0R0KKD6 A0A0R0KKD6 | EEPQQPQQRGQ |
| 84 | A0A0R0KKD6 A0A0R0KKD6 | GERVFDGELQEG | O22121 O22121 | FGEEEEQRQQE |
| 85 | I1NGH2 I1NGH2 | LAIPV NKPGRFE | I1NGH2 I1NGH2 | LAIPV NKPGRF |
| 86 | I1NGH2 I1NGH2 | ITPEKNPQLRDL | I1L862 I1L862 | GPGGRDPESVL |
| 87 | A0A0R0IVM8 A0A0R0IVM8 | GGIKLPTDILSK | I1KYW3 I1KYW3 | KDISEGPPAIK |
| 88 | I1M3W1 I1M3W1 | VVVPDPTQIDVK | Q9LD16 Q9LD16 | RVSDDEFN NYK |
| 89 | A0A0R0KKD6 A0A0R0KKD6 | RFREGDLIAVPT | A0A0R0KKD6 A0A0R0KKD6 | FREGDLIAVPT |
| 90 | Q9FZP9 Q9FZP9 | GQIPRPRPQHPE | I1NGH2 I1NGH2 | EITPEKNPQLR |
| 91 | D6PAW3 D6PAW3 | GRGPTVTDPNTE | A0A0R0GMV1 A0A0R0GMV1 | LNALEPDHRVE |
| 92 | D6PAW7 D6PAW7 | SGGIKLPTDIIS | I1NGH2 I1NGH2 | ITPEKNPQLRD |
| 93 | C6TKH0 C6TKH0 | GIRVNGVAPGPV | A0A0R0KKD6 A0A0R0KKD6 | IVPQNFVVAAR |
| 94 | I1NGH2 I1NGH2 | FPFPRPPHQKEE | Q9S9D0 Q9S9D0 | HLPSYSPYPRM |
| 95 | I1NGH2 I1NGH2 | RQFPFPRPPHQK | I1NGH2 I1NGH2 | GINAENNQRNF |
| 96 | I1NGH2 I1NGH2 | LRRHKKNKNPFLF | I1NGH2 I1NGH2 | RQFPFPRPPHQ |
| 97 | I1KC69 I1KC69 | GHRNPEEIPWGS | I1NGH2 I1NGH2 | AIPV NKPGRFE |
| 98 | C6T037 C6T037 | LFPEPARLPGF | A0A0R0HEM1 A0A0R0HEM1 | AGFAGDDAPRA |
| 99 | D6PAW7 D6PAW7 | SGGIKLPTDIISK | I1NGH2 I1NGH2 | EHEQREEQEWRP |
| 100 | D6PAW3 D6PAW3 | EGGIKLPRDVIST | B3TDK5 B3TDK5 | TLEDVPNQGTIR |
| 101 | D6PAW3 D6PAW3 | YEGGIKLPRDVIS | Q9FZP9 Q9FZP9 | VVNPNDENLRM |
| 102 | A0A0R0KKD6 A0A0R0KKD6 | ARSQSDNFEYVSF | I1NGH2 I1NGH2 | LAIPV NKPGRFE |
| 103 | I1NGH2 I1NGH2 | ERQFPFPRPPHQK | I1NGH2 I1NGH2 | EITPEKNPQLRD |
| 104 | K7M1X9 K7M1X9 | LRPGTGPKPIPGQ | I1LXD1 I1LXD1 | IEVAPPQKGEVR |
| 105 | I1NGH2 I1NGH2 | EITPEKNPQLRDL | I1NGH2 I1NGH2 | ITPEKNPQLRDL |
| 106 | I1MWZ7 I1MWZ7 | WEEPFGLPVLVIR | D6PAW7 D6PAW7 | NDLGDPDKGENH |
| 107 | I1NGH2 I1NGH2 | VIVEISKEQIRAL | A0A0R0KKD6 A0A0R0KKD6 | NFREGDLIAVPT |
| 108 | I1NGH2 I1NGH2 | RQFPFPRPPHQKE | I1NGH2 I1NGH2 | AIPV NKPGRFES |

| | | | | |
|-----|---------------------------|-----------------------|---------------------------|----------------------|
| 109 | A0A0R0KKD6 A0 A0R0KKD6 | ARSQSDNFEYVSF | A0A0R0KKD6 A0 A0R0KKD6 | GERVFDGELQEG |
| 110 | A0A0R0GMV1 A 0A0R0GMV1 | RSPDDERKQIVTV | A0A0R0GMV1 A 0A0R0GMV1 | GNAVFDGELRRG |
| 111 | A0A0R0I0I4 A0A 0R0I0I4 | GTPLFPRDPAKKE | I1NGH2 I1NGH2 | RQFPFPRPPHQK |
| 112 | Q9S9D0 Q9S9D0 | NFNQLDQTPRVF | O23958 O23958 | ADTGGGDAVRPV |
| 113 | A0A0R0KKD6 A0 A0R0KKD6 | VIKPPTDEQQQRPQ | Q8GV24 Q8GV24 | ATNPAQSEPGTIR |
| 114 | I1NGH2 I1NGH2 | RQFPFPRPPHQKEE | D6PAW7 D6PAW 7 | SGGIKLPTDIISK |
| 115 | D6PAW7 D6PAW 7 | YSGGIKLPTDIISK | I1NGH2 I1NGH2 | HEQREEQEWPKE |
| 116 | I1NGH2 I1NGH2 | FEITPEKNPQLRDL | I1L862 I1L862 | VGPDDDEKSWLQR |
| 117 | A0A0R0GMV1 A 0A0R0GMV1 | RSPDDERKQIVTVE | I1NGH2 I1NGH2 | EQREEQEWPKEE |
| 118 | Q9FZP9 Q9FZP9 | INKVLFGREEGQQQ | A0A0R0GMV1 A 0A0R0GMV1 | GNAVFDGELRRGQ |
| 119 | I1NGH2 I1NGH2 | GEIPRPRPRQHPE | A0A0R0F1F3 A0A 0R0F1F3 | TVTPQGEYNVRVS |
| 120 | I1NGH2 I1NGH2 | DERQFPFPRPPHQK | I1L862 I1L862 | FGPGRDPESVLS |
| 121 | I1NGH2 I1NGH2 | ESVIVEISKEQIRAL | A0A0R0GMV1 A 0A0R0GMV1 | RSPDDERKQIVTV |
| 122 | D6PAW7 D6PAW 7 | ARPVLGNDTFYPY R | I1NGH2 I1NGH2 | EITPEKNPQLRDL |
| 123 | Q588Z6 Q588Z6 | LEATKPTLFPWLPE | Q9FZP9 Q9FZP9 | INKVLFGREEGQQQ |
| 124 | I1NGH2 I1NGH2 | VVNPNNENLRLIT L | A0A0R0F1F3 A0A 0R0F1F3 | VDLVMDKPNGPVWR |
| 125 | A0A0R0KKD6 A0 A0R0KKD6 | SVIKPPTDEQQQRPQ | D6PAW7 D6PAW 7 | YSGGIKLPTDIISK |
| 126 | A0A0R0KK84 A0 A0R0KK84 | FEYVSFKTNDRPSIG | I1NGH2 I1NGH2 | RKQEEDEDEEQRE |
| 127 | I1L862 I1L862 | EEFFGPGGRDPESVL | I1NGH2 I1NGH2 | RQFPFPRPPHQKEE |
| 128 | I1NGH2 I1NGH2 | ERQFPFPRPPHQKEE | F7J077 F7J077 | GEEEEQRQQEGVIV |
| 129 | I1NGH2 I1NGH2 | SESELRRHKKNKNP FL | I1NGH2 I1NGH2 | HEQREEQEWPKEE |
| 130 | D6PAW3 D6PAW 3 | KGHGDLKDKPWWP KLQ | A0A0R0KKD6 A0 A0R0KKD6 | VIKPPTDEQQQRPQ |
| 131 | I1NGH2 I1NGH2 | DERQFPFPRPPHQK EE | A0A0R0GMV1 A 0A0R0GMV1 | RSPDDERKQIVTVE |
| 132 | A0A0R0GMV1 A 0A0R0GMV1 | DQPRPDHPPQRPSR PE | P11828 GLYG3 | VISPTTEEQQQRPEE |
| 133 | I1NGH2 I1NGH2 | EDEQPRPIPFPRPQP R | Q7XAC5 Q7XAC5 | RGPLQPGESDNDNF R |
| 134 | I1NGH2 I1NGH2 | SESELRRHKKNKNP FLF | I1NGH2 I1NGH2 | SESELRRHKKNKNP F |
| 135 | A0A0R0KKD6 A0 A0R0KKD6 | SIIDTNSLENQLDQM PR | A0A0R0KKD6 A0 A0R0KKD6 | SVIKPPTDEQQQRPQ |
| 136 | D6PAW7 D6PAW 7 | ARPVLGNDTFYPYR RG | P11828 GLYG3 | VISPTTEEQQQRPEEE |
| 137 | A0A0R0KKD6 A0 A0R0KKD6 | SIIDTNSLENQLDQM PR | A0A0R0KKD6 A0 A0R0KKD6 | VIKPPTDEQQQRPQE E |

| | | | | |
|-----|---------------|-------------------------------|---------------------------|-------------------------------|
| 138 | I1NGH2 I1NGH2 | EQPRPIPFPRPQPRQ EEE | I1NGH2 I1NGH2 | SESEDSSELRRHKNK NPF |
| 139 | I1M005 I1M005 | SGDVWFPQPAPKDHPWRY | I1NGH2 I1NGH2 | DEDEQPRPIPFPRPQ PRQE |
| 140 | Q9FZP9 Q9FZP9 | GEQPRPFPPFRPQPRQ HQE | I1NGH2 I1NGH2 | DEQPRPIPFPRPQPR QEEE |
| 141 | I1M005 I1M005 | GDVWFPQPAPKDHPWRYM PN | I1NGH2 I1NGH2 | KRGEKGSEEEDEDE DEEQDE |
| 142 | Q948X9 Q948X9 | KEEDEDEQPRPIPFPRP RPRQP | I1NGH2 I1NGH2 | DEDEQPRPIPFPRPQ PRQEEE |
| 143 | Q9FZP9 Q9FZP9 | GEQPRPFPPFRPQPRQ HQEEE | A0A0R0KKD6 A0 A0R0KKD6 | VIKPPTDEQQQRPQE EEEEEE |
| 144 | Q9FZP9 Q9FZP9 | DEGEQPRPFPPFRPR QPHQE | Q9FZP9 Q9FZP9 | EDEGEQPRPFPPFRP RQPHQE |
| 145 | Q9FZP9 Q9FZP9 | EGEQPRPFPPFRPQ PHQEEE | Q9FZP9 Q9FZP9 | DEGEQPRPFPPFRPR QPHQEE |
| 146 | Q9FZP9 Q9FZP9 | DEGEQPRPFPPFRPR QPHQEE | I1NGH2 I1NGH2 | EDEDEQPRPIPFPRP QPRQEEE |
| 147 | Q9FZP9 Q9FZP9 | EDEGEQPRPFPPFRP RQPHQE | Q9FZP9 Q9FZP9 | EDEGEQPRPFPPFRP RQPHQEE |
| 148 | I1NGH2 I1NGH2 | GEQRLQESVIVEISKE QIRAL | Q9FZP9 Q9FZP9 | DEGEQPRPFPPFRPR QPHQEEE |
| 149 | I1M005 I1M005 | SGDVWFPQPAPKDHPWRY MPN | A0A0R0KKD6 A0 A0R0KKD6 | SVIKPPTDEQQQRPQ EEEEEEE |
| 150 | Q9FZP9 Q9FZP9 | EDEGEQPRPFPPFRP RQPHQEE | Q9FZP9 Q9FZP9 | EDEGEQPRPFPPFRP RQPHQEEE |
| 151 | Q9FZP9 Q9FZP9 | DEGEQPRPFPPFRPR QPHQEEE | Q9FZP9 Q9FZP9 | KEEDEGEQPRPFPPF RPRQPHQEEE |
| 152 | I1NGH2 I1NGH2 | KNPQLRDLDFLSIVD MNEGAL | | |
| 153 | I1NGH2 I1NGH2 | SYDTKFEEINKVLFS REEGQQQ | | |
| 154 | Q9FZP9 Q9FZP9 | EDEGEQPRPFPPFRP RQPHQEEE | | |
| 155 | Q9FZP9 Q9FZP9 | KEEDEGEQPRPFPPF RPRQPHQEEE | | |
