

## Appendix A

### Exon and intron sequences of glutathione S-transferase class pi (GSTP1)

Intron sequences are in italic. Exon sequences are in blankets and in bold. Amino acids are in one-letter abbreviation form and numbered on the right-handed side. The polymorphic residues in exons 5 and 6 are in square.

<p><i>.....cggcgggagtcgcggggaccctccagaagagcggccggcgccgtgactcagcactggggcggag  cggggcgggaccacccttataaggctcggaggccgcaggccttcgct</i> <b>[GGAGTTTCGCCCGCCGAGTC</b></p> <p style="text-align: center;"><b>M</b></p> <p><b>TTGCCACCA</b> <i>]gtgagtacgcgcggcccgctccccggggtgaggctcagagctcccagcatggggc  aaccgcagcatcaggccccgggtccccgcagggtcctcgcccactcgagaccgggacgggggct  aggggaccaggactccccagtgccgttagcggcttccaggggcccgagc.....(intron1).....gcg  cctcgggagggatgggacccccggggcgaggggggagggggggcagactgcgctcaccgcgcttggcatcc</i></p>	1
<p style="text-align: center;"><b>P P Y T V V Y F P</b></p> <p><i>tccccgggctccagcaaacctttctttgcttgcgtgag</i> <b>[TGCCGCCCTACACCGTGGTCTATTCCCA</b></p> <p style="text-align: center;"><b>V R G</b></p> <p><b>GTTTCGAG</b> <i>]gtaggagcatggtcttggcaggggaaggaggcaggggctggggctgcagccacagccct  cgcccaccggagagatccgaaccccccttatccctccgtcgtgtggctttaccgcggcctccttct  gttccccgctcctccgccatgcctgcctcccgccctcagtggtgtgtgaa.....(intron2).....  ...ccggcctcctctctgttcccgctcccgccatgcccgcctgcctgcctcccgcccgagtgtgtgtgaaat  ctcgggagcaactgtttccctgttccctcctcctcactcctgcaccctccccgggttgctgcgaggcg</i></p>	13
<p style="text-align: center;"><b>R C A A L R M L</b></p> <p><i>agtccggccgggtccccacatctcgtacttctccctccccgag</i> <b>[GCCGCTGCGCGGCCCTGCGCATGCT</b></p> <p style="text-align: center;"><b>L A D Q G Q S W K E E V V T V E T W Q E G S L</b></p> <p><b>GCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGTGGTGACCCTGGAGACGTGCAGGAGGGCTCACT</b></p> <p style="text-align: center;"><b>K A S C</b></p> <p><b>CAAAGCCTCCTGC</b> <i>]gtaagtgaccatgcccgggcaaggggaggggtgctgggccttaggggctgtga  ctaggtcgggggacgccaaagctcagtgcccctcctgagccatgctcccccaacagctatacgggc  agctccccaaagtccaggacggagacctcacctgtaccagtccaataccatcctg.....(intron3).....  .....cagagctggaagggagggtggtgacctgagagcgtggcaggagggctcactcaaagcctcctg  cgtaagtgaccatgcccgggcaaggggaggggggtgctgggccttagggggctgtagtaggatcggggg</i></p>	21
<p style="text-align: center;"><b>L Y G Q L P K F</b></p> <p><i>acgcccaggctcagtgcccctccctgagccatgcctcccccaacag</i> <b>[CTATACGGGCAGCTCCCAAGT</b></p> <p style="text-align: center;"><b>Q D G D L T L Y Q S N T I L R H L G R T L G</b></p> <p><b>TCCAGGACGGAGACCTCACCTGTACCAGTCCAATACCATCCTGCGTCACCTGGGCCGACCCCTTG</b> <i>]gt  gagtcttgaacctccaagtcagggcaggcatgggcaagccttgcccccggagcccttttggtttaa  ccttaccctcagggtggcttgggctgagccccctcttgggtcaggggtgcaggggctgggtgca  ggtgagctctgagcactgctgtgtggcagctctctatccctccacgcacatccttccccctcctccc  aggctggggctcacagacagccccctggttggcccacccagtgactgtgtgtgtgatcagggcgcccag</i></p>	56
<p style="text-align: center;"><b>L Y G K D Q Q E A A L</b></p> <p><i>tcacgcggcctgctccctccacccaacccag</i> <b>[GGCTCTATGGGAAGGACCAGCAGGAGGCACCCCTG</b></p> <p style="text-align: center;"><b>V D M V N D G V E D L R C K Y</b> <span style="border: 1px solid black; padding: 0 2px;">I</span> <b>S L I Y T N Y</b></p> <p><b>GTGGACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTAT</b></p> <p><i>]gtgagcatctgcaccagggttgggcaactgggggctgaaacaaaggggcttcttgtgccctcacc  ccctaccctcaggtggcttgggctgagccccctcttgggtcaggggtgcaggggctgggtgca  gccaggggcccaggggctgggacaagacacaacctgcaccct.....(intron5).....gacagg  cagaatggaatagagatgagttggcagctgaagtggacaggatttggtactagctggttgtggggagc  aagcagaggagaatctgggactctggtgtctggcctggggcagacgggggtgctcaggggctggggagg</i></p>	89
<p style="text-align: center;"><b>E</b> <span style="border: 1px solid black; padding: 0 2px;">A</span> <b>G K D D Y V K A L</b></p> <p><i>gatgagagtaggatgatacatggtggtgcttggcag</i> <b>[GAGGCGGGCAAGGATGACTATGTGAAGGCACT</b></p> <p style="text-align: center;"><b>P G Q L K P F E T L L S Q N Q G G K T F I V G</b></p> <p><b>GCCGGGCAACTGAAACCTTTGAGACCCTGCTGTCCAGAACCAGGGAGGCAAGACCTTCATTGTGGG</b></p> <p style="text-align: center;"><b>D Q</b></p> <p><b>AGACCAG</b> <i>]gtgagcatctggccatgctgttccctcctcgccaccctctgcttccagatggacacagg  tgtgagccatgtttagcaaaagcagagcagaccataggggatgggttaggccctctgcccccaattcc  tccagctgctccccgtggctgagtccttggccccctgccttcagatc.....(intron6).....  ...caggtagcactctggccccatgctgttccctcctcgccaccctctgcttccagatggacacagggtg  agccatgttttagcaaaagcagagcagacctaggggatgggcttaggccctctgcccccaattcctcca</i></p>	123
<p style="text-align: center;"><b>I S F A D Y N L L</b></p> <p><i>gcctgctcccgtggctgagtccttggccccctgcctgacag</i> <b>[ATCTCCTTCGCTGACTACAACCTGC</b></p> <p style="text-align: center;"><b>D L L L I H E V L A P G C L D A F P L L S A Y</b></p> <p><b>TGGACTTGCTGCTGATCCATGAGGTCTAGCCCTGGCTGCCTGGATGCGTCCCCCTGCTCTCAGCAT</b></p> <p><i>V G R L S A R P K L K A F L A S P E Y V N L P</i></p> <p><b>ATGTGGGCGCCTCAGTCCC GCGGCAAGCTCAAGGCCTTCTGGCCTCCCCTGAGTACGTGAACCTCC</b></p> <p style="text-align: center;"><b>I N G N G K Q</b> stop</p> <p><b>CCATCAATGGCAACGGGAAACAGT</b> <span style="border: 1px solid black; padding: 0 2px;">G</span> <b>AGGGTGGGGGACTCTGAGCGGGAGGCAGAGTTGCCTTCCTT</b></p> <p><b>TCTCCAGGACCAATAAAATTTCTAAGAGAGCT</b> <i>]actatgagcactgtgttccctgggacggggcttagg  ggttctcagcctcgaggtcggtgggagggcagagcagaggactagaaaacagctcctccagcac.....</i></p>	146
<p style="text-align: right; padding-right: 20px;">148</p>	
<p style="text-align: right; padding-right: 20px;">157</p>	
<p style="text-align: right; padding-right: 20px;">180</p>	
<p style="text-align: right; padding-right: 20px;">203</p>	
<p style="text-align: right; padding-right: 20px;">210</p>	