

## Appendix B

### Amino acid sequences of human GST class alpha (hGSTA1), mu (hGSTM1), pi (hGSTP1) and theta (hGSTT1)

	1	10	20	30	40	50	60	70	80	90	100		
hGSTA1	AEKPKLHYFNARGRMESTRWLLAAAGVFEEEFKSAEDLDKLRNDGYLMFQQVPMVEIDGMKLVOTRAILNYIASKYNLYGKDIKERALIDMYIEGIAD												
		$\beta_1$		$\alpha_1$		$\beta_2$		$\alpha_2$		$\beta_3$	$\beta_4$	$\alpha_3$	$\alpha_4$
hGSTM1	PMILGYWDIRGLAHAIRLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNLPYLIDGAHKITQSNAILCYARKHNLCGETEEKIRVDILEN												
		$\beta_1$		$\alpha_1$		$\beta_2$	Mu-loop	$\alpha_2$		$\beta_3$	$\beta_4$	$\alpha_3$	$\alpha_4$
hGSTT1	GLELYDLLSQPCRAVYIFAKKNDIPFELRIVDLIKGQHLSOAFQVNLKPKVPALKDGDFTLTESVAILLYLTRKYKVPDYWYPQDLQARARVDEYLAW												
hGSTP1	PPYTVVYFVVRGRCAALRMLLADQGGQSWKFFWTVETWQQGSLKASCLYGQLPKFQDGLTLYOSNTILRHLGRTLGLYGKDDQGEAALVDMVNDGV												
		$\beta_1$		$\alpha_1$		$\beta_2$		$\alpha_2$		$\beta_3$		$\alpha_3$	$\alpha_4$
hGSTA1	LGEMILLPVCPEEKDAKLALIKEIKNRYFPAFEKVLKSHGQDYL VGNKLSRADIHLVELLYVEELDSSLISSPFLKALKTRISNLPVKKFLQPGSP												
				$\alpha_5$						$\alpha_6$		$\alpha_7$	$\alpha_8$
hGSTM1	QTMNDNHMGLGMICYNPEFEKLPKYLEELPEKLYSEFLGKRPWFAGNKITFVDFLVYDVLDLHRIFEPNCLDAFPNLKDFISRFEGLEKISAYMKSS												
				$\alpha_5$						$\alpha_6$		$\alpha_7$	$\alpha_8$
hGSTT1	QHTTLRRSCLRALWHKVMFPVFLGGPVSPQTLAATLAELDVTLAELDVTGLLEDKFLQNKAEELTGP HISLADLVAITELMHPVGGGCPVFGGHPRLA												
hGSTP1	LDLRCKYISLIYTNYEAGKDDYVKALPGOLKPFETLLSQNQGGKTFIVGDGIFADYNLLDLLLIEVLAPGCLDAFPLLSAYVGRLSARPKIKAFLASPE												
				$\alpha_5$						$\alpha_6$		$\alpha_7$	$\alpha_8$
hGSTA1	RKPPMDEKSLEEARKIFRF >>>221												
		$\beta_5$		$\alpha_9$									
hGSTM1	RFLPRPVFSKMAVWGNK >>>>217												
hGSTT1	AWYGRVEAAVGEDLFQEAHEVILKAKDFPPADPTIKQLMPWVLAMIR >>>239												
hGSTP1	YVNLPIGNGKQ >>>209												