Table S1. Increased gene transcripts from HU133A

Protein degradation	7 Increase	Vesicle trafficking	6 Increase
26S subunit, non-ATPase, 8 (PSM D8)		Coatomer protein complex, subunit ε (COPE)	
Tissue inhibitor of metalloproteinase 3 (TIM P3)		RAB31, member RAS oncogene family (RAB31)	
Ly sosomal-associated membrane protein 1 (LAM P1)		Small GTP-binding protein rab22b	
Ly sosomal-associated membrane protein 2 (LAMP2)		Centaurin-α2 protein	
Ubiquitin carboxy l-terminal esterase L3		Caveolin 1, caveolae protein, 22 kD (CAV1)	
SerpinB5		Adaptor-related protein complex 1, σ2 subunit	
β-site APP-cleaving enzy me	2 (BACE2)	Kinases/phosphodiesterase	3 Increase
Chaperones	3 Increase	Serum-inducible kinase (SNK)	
Heat shock 27 kD protein 3 (HSP		Phosphodiesterase 2A, cGM P-stimulated (PDE2A)	
Heat shock 27 kD protein family, member 7 (HSPB7)		Ribosomal protein S6 kinase, 70 kD, polypeptide 2	
Heat shock 70 kD protein 2 (HSP		Cytoskeletal proteins	6 Increase
Signaling molecules	4 Increase	Capping protein (actin filament	
IRS-2		Epidermal growth factor receptor pathway substrate 8	
SH3BGRL3-like protein (SH3BGRL3)		Tubulin, β polypeptide (TUBB)	
S100 calcium-binding protein P (S100P)		Cytokeratin 8	
stratifin		Keratin 17 (KRT17)	
Transcription factors/cofactors	4 Increase	Tropomodulin 3 (ubiquitous) (TMOD3)	
Zinc finger DAZ interacting prote	in 1 (DZIP1)	Channel/receptors/ion pumps	3 Increase
Kruppel-like factor 4 (gut)		FXYD domain-containing ion transport regulator 5	
BarH-like homeobox 1 (BARX1)		KCNN4	
High mobility group AT-hook 2 (HMGA2), mRNA		Chloride intracellular channel 3 (CLIC3)	
ECM and adhesion proteins	4 Increase	Metabollic proteins	7 Increase
collagen, type IV, α6		Nicotinamide N-methyltransferase (NNMT)	
Podocaly xin-like (PODXL)		Cytidine deaminase (CDA)	
		Pig12 (PIG12)	
Protocadherin 17 (PCDH17)		Liver-type alkaline phosphatase (EC 3.1.3.1).	
Nuclear proteins/scaffold proteins 1 Increase		hluPGFS	
Kary opherin (importin) β3		Alanyl (membrane) aminopeptidase	
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The genes required for clearance are listed in Fig. 2. The genes whose knockdown led to cell death are shown in gray.