

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-0001	<i>AKT1</i>	c.49G>A	p.E17K
OTS-0002	<i>AKT1</i>	c.155T>G	p.L52R
OTS-0003	<i>AKT1</i>	c.235C>A	p.Q79K
OTS-0004	<i>AKT1</i>	c.726G>A	p.E242=
OTS-0005	<i>ALK</i>	c.3522C>A	p.F1174L
OTS-0006	<i>ALK</i>	c.3824G>A	p.R1275Q
OTS-0007	<i>ALK</i>	c.4338C>T	p.T1446=
OTS-0008	<i>ALK</i>	c.2535T>C	p.G845=
OTS-0009	<i>ARID1A</i>	c.5965C>T	p.R1989X
OTS-0010	<i>ARID1A</i>	c.5548dupG	p.D1850Gfs*4
OTS-0011	<i>ARID1A</i>	c.3826C>T	p.R1276X
OTS-0012	<i>ARID1A</i>	c.5161C>T	p.R1721X
OTS-0013	<i>ARID1A</i>	c.2077C>T	p.R693X
OTS-0014	<i>ARID1A</i>	c.4003C>T	p.R1335X
OTS-0015	<i>ARID1A</i>	c.2830C>T	p.Q944X
OTS-0016	<i>ARID1A</i>	c.5164C>T	p.R1722X
OTS-0017	<i>ARID1A</i>	c.4336C>T	p.R1446X
OTS-0018	<i>ARID1A</i>	c.6259G>A	p.G2087R
OTS-0019	<i>ARID1A</i>	c.6472C>T	p.R2158X
OTS-0020	<i>ARID1A</i>	c.4381C>T	p.R1461X
OTS-0021	<i>ARID1A</i>	c.4582C>T	p.R1528X
OTS-0022	<i>ARID1A</i>	c.3634C>T	p.Q1212X
OTS-0023	<i>ARID1A</i>	c.1897C>T	p.Q633X
OTS-0024	<i>ARID1A</i>	c.2248C>T	p.R750X
OTS-0025	<i>ARID1A</i>	c.3598C>T	p.Q1200X
OTS-0026	<i>ARID1A</i>	c.1435C>T	p.Q479X
OTS-0027	<i>ARID1A</i>	c.3424C>T	p.Q1142X
OTS-0028	<i>ARID1A</i>	c.4750C>T	p.Q1584X
OTS-0029	<i>ARID1A</i>	c.1210C>T	p.Q404X
OTS-0030	<i>ARID1A</i>	c.1901C>G	p.S634X
OTS-0031	<i>ARID1A</i>	c.1177C>T	p.Q393X
OTS-0032	<i>ARID1A</i>	c.1696C>T	p.Q566X
OTS-0033	<i>ARID1A</i>	c.2032C>T	p.Q678X
OTS-0034	<i>ARID1A</i>	c.4477C>T	p.Q1493X
OTS-0035	<i>ARID1A</i>	c.4624G>T	p.E1542X
OTS-0036	<i>ARID1A</i>	c.1543C>T	p.Q515X
OTS-0037	<i>ARID1A</i>	c.2518C>T	p.Q840X
OTS-0038	<i>ARID1A</i>	c.2632C>T	p.Q878X
OTS-0039	<i>ARID1A</i>	c.4087C>T	p.Q1363X
OTS-0040	<i>ARID1A</i>	c.6260G>A	p.G2087E
OTS-0041	<i>ARID2</i>	c.890C>T	p.S297F
OTS-0042	<i>ARID2</i>	c.940C>T	p.R314C
OTS-0043	<i>ARID2</i>	c.1624C>T	p.R542X
OTS-0044	<i>ARID2</i>	c.820C>T	p.R274X
OTS-0045	<i>ASXL1</i>	c.2077C>T	p.R693X
OTS-0046	<i>ASXL1</i>	c.1934dup	p.G646WfsX12
OTS-0047	<i>ATM</i>	c.5557G>A	p.D1853N
OTS-0048	<i>ATM</i>	c.1009C>T	p.R337C
OTS-0049	<i>ATM</i>	c.9023G>A	p.R3008H
OTS-0050	<i>ATM</i>	c.1010G>A	p.R337H
OTS-0051	<i>ATR</i>	c.7875G>A	p.Q2625=
OTS-0052	<i>ATR</i>	c.5460T>C	p.Y1820=
OTS-0053	<i>ATRX</i>	c.4276C>T	p.R1426X
OTS-0054	<i>ATRX</i>	c.5579A>G	p.N1860S
OTS-0055	<i>ATRX</i>	c.2719C>T	p.R907X
OTS-0056	<i>ATRX</i>	c.2341C>T	p.R781X
OTS-0057	<i>ATRX</i>	c.5408G>A	p.R1803H
OTS-0058	<i>ATRX</i>	c.748C>T	p.R250X
OTS-0059	<i>BCL6</i>	c.1781G>A	p.R594Q
OTS-0060	<i>BCOR</i>	c.4376A>G	p.N1459S
OTS-0061	<i>BRAF</i>	c.1799T>A	p.V600E
OTS-0062	<i>BRAF</i>	c.1798_1799delinsAA	p.V600K
OTS-0063	<i>BRAF</i>	c.1801A>G	p.K601E
OTS-0064	<i>BRAF</i>	c.1781A>G	p.D594G
OTS-0065	<i>BRAF</i>	c.1406G>C	p.G469A
OTS-0066	<i>BRAF</i>	c.1780G>A	p.D594N
OTS-0067	<i>BRAF</i>	c.1397G>T	p.G466V

OTS-No	Gene	CDS	AA
OTS-0068	<i>BRAF</i>	c.1742A>G	p.N581S
OTS-0069	<i>BRAF</i>	c.1798G>A	p.V600M
OTS-0070	<i>BRAF</i>	c.1397G>A	p.G466E
OTS-0071	<i>BRAF</i>	c.1405G>A	p.G469R
OTS-0072	<i>BRAF</i>	c.1406G>T	p.G469V
OTS-0073	<i>BRCA1</i>	c.2612C>T	p.P871L
OTS-0074	<i>BRCA1</i>	c.3548A>G	p.K1183R
OTS-0075	<i>BRCA1</i>	c.2077G>A	p.D693N
OTS-0076	<i>BRCA1</i>	c.4900A>G	p.S1634G
OTS-0077	<i>BRCA1</i>	c.3113A>G	p.E1038G
OTS-0078	<i>BRCA2</i>	c.7397T>C	p.V2466A
OTS-0079	<i>BRCA2</i>	c.865A>C	p.N289H
OTS-0080	<i>BRCA2</i>	c.2971A>G	p.N991D
OTS-0081	<i>BRCA2</i>	c.1114A>C	p.N372H
OTS-0082	<i>BRCA2</i>	c.1365A>G	p.S455=
OTS-0083	<i>BRCA2</i>	c.2229T>C	p.H743=
OTS-0084	<i>BRCA2</i>	c.3807T>C	p.V1269=
OTS-0085	<i>CALR</i>	c.1099_1150del	p.L367Tfs*46
OTS-0086	<i>CARD11</i>	c.1876G>A	p.E626K
OTS-0087	<i>CARD11</i>	c.688G>A	p.D230N
OTS-0088	<i>CD79B</i>	c.589T>C	p.Y197H
OTS-0089	<i>CD79B</i>	c.590A>G	p.Y197C
OTS-0090	<i>CD79B</i>	c.589T>A	p.Y197N
OTS-0091	<i>CD79B</i>	c.590A>C	p.Y197S
OTS-0092	<i>CD79B</i>	c.590A>T	p.Y197F
OTS-0093	<i>CD79B</i>	c.589T>G	p.Y197D
OTS-0094	<i>CDH1</i>	c.67C>T	p.Q23X
OTS-0095	<i>BRCA1</i>	c.3119G>A	p.S1040N
OTS-0096	<i>CDH1</i>	c.1774G>A	p.A592T
OTS-0097	<i>CDH1</i>	c.1901C>T	p.A634V
OTS-0098	<i>CDH1</i>	c.187C>T	p.R63X
OTS-0099	<i>CDKN2A</i>	c.238C>T	p.R80X
OTS-0100	<i>CDKN2A</i>	c.172C>T	p.R58X
OTS-0101	<i>CDKN2A</i>	c.247C>T	p.H83Y
OTS-0102	<i>CDKN2A</i>	c.330G>A	p.W110X
OTS-0103	<i>CDKN2A</i>	c.341C>T	p.P114L
OTS-0104	<i>CDKN2A</i>	c.262G>T	p.E88X
OTS-0105	<i>CDKN2A</i>	c.329G>A	p.W110X
OTS-0106	<i>CDKN2A</i>	c.358G>T	p.E120X
OTS-0107	<i>CDKN2A</i>	c.322G>T	p.D108Y
OTS-0108	<i>CDKN2A</i>	c.250G>T	p.D84Y
OTS-0109	<i>CDKN2A</i>	c.250G>A	p.D84N
OTS-0110	<i>CDKN2A</i>	c.205G>T	p.E69X
OTS-0111	<i>CDKN2A</i>	c.242C>T	p.P81L
OTS-0112	<i>CDKN2A</i>	c.148C>T	p.Q50X
OTS-0113	<i>CDKN2A</i>	c.322G>A	p.D108N
OTS-0114	<i>CDKN2A</i>	c.35C>A	p.S12X
OTS-0115	<i>CDKN2A</i>	c.143C>T	p.P48L
OTS-0116	<i>CDKN2A</i>	c.181G>T	p.E61X
OTS-0117	<i>CDKN2A</i>	c.251A>G	p.D84G
OTS-0118	<i>CDKN2A</i>	c.262G>A	p.E88K
OTS-0119	<i>CDKN2A</i>	c.322G>C	p.D108H
OTS-0120	<i>CDKN2A</i>	c.442G>A	p.A148T
OTS-0121	<i>CDKN2A</i>	c.387C>A	p.Y129X
OTS-0122	<i>CDKN2A</i>	c.107C>G	p.A36G
OTS-0123	<i>CDKN2A</i>	c.170C>T	p.A57V
OTS-0124	<i>CDKN2A</i>	c.248A>G	p.H83R
OTS-0125	<i>CDKN2A</i>	c.305C>T	p.A102V
OTS-0126	<i>CDKN2A</i>	c.45G>A	p.W15X
OTS-0127	<i>CDKN2A</i>	c.220G>T	p.D74Y
OTS-0128	<i>CDKN2A</i>	c.97G>T	p.E33X
OTS-0129	<i>CDKN2A</i>	c.457G>A	p.E153K
OTS-0130	<i>CDKN2A</i>	c.244G>A	p.V82M
OTS-0131	<i>CDKN2A</i>	c.227C>T	p.A76V
OTS-0132	<i>CDKN2A</i>	c.247C>G	p.H83D
OTS-0133	<i>CDKN2A</i>	c.220G>A	p.D74N
OTS-0134	<i>CDKN2A</i>	c.355G>T	p.E119X

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OTS-No	Gene	CDS	AA
OTS-0135	<i>CDKN2A</i>	c.387C>G	p.Y129X
OTS-0136	<i>CDKN2A</i>	c.132C>A	p.Y44X
OTS-0137	<i>CDKN2A</i>	c.290T>G	p.L97R
OTS-0138	<i>CDKN2A</i>	c.221A>C	p.D74A
OTS-0139	<i>CDKN2A</i>	c.305C>A	p.A102E
OTS-0140	<i>CDKN2A</i>	c.226G>A	p.A76T
OTS-0141	<i>CDKN2A</i>	c.389T>A	p.L130Q
OTS-0142	<i>CDKN2A</i>	c.202G>A	p.A68T
OTS-0143	<i>CDKN2A</i>	c.301G>T	p.G101W
OTS-0144	<i>CDKN2A</i>	c.128G>T	p.S43I
OTS-0145	<i>CDKN2A</i>	c.323A>G	p.D108G
OTS-0146	<i>CDKN2A</i>	c.251A>T	p.D84V
OTS-0147	<i>CDKN2A</i>	c.392G>A	p.R131H
OTS-0148	<i>CDKN2A</i>	c.79G>T	p.E27X
OTS-0149	<i>CHD4</i>	c.417G>T	p.E139D
OTS-0150	<i>CHD4</i>	c.2924G>A	p.R975H
OTS-0151	<i>CHD4</i>	c.3484C>T	p.R1162W
OTS-0152	<i>CHD4</i>	c.3313C>T	p.R1105W
OTS-0153	<i>CHD4</i>	c.4013G>T	p.R1338I
OTS-0154	<i>CIC</i>	c.2816G>C	p.G939A
OTS-0155	<i>CIC</i>	c.643C>T	p.R215W
OTS-0156	<i>CIC</i>	c.604C>T	p.R202W
OTS-0157	<i>CIC</i>	c.601C>T	p.R201W
OTS-0158	<i>CIC</i>	c.644G>A	p.R215Q
OTS-0159	<i>CIC</i>	c.4533C>T	p.I1511=
OTS-0160	<i>CTNNB1</i>	c.121A>G	p.T41A
OTS-0161	<i>CTNNB1</i>	c.134C>T	p.S45F
OTS-0162	<i>CTNNB1</i>	c.133T>C	p.S45P
OTS-0163	<i>CTNNB1</i>	c.110C>T	p.S37F
OTS-0164	<i>CTNNB1</i>	c.98C>G	p.S33C
OTS-0165	<i>CTNNB1</i>	c.110C>G	p.S37C
OTS-0166	<i>CTNNB1</i>	c.94G>T	p.D32Y
OTS-0167	<i>CTNNB1</i>	c.98C>T	p.S33F
OTS-0168	<i>CTNNB1</i>	c.122C>T	p.T41I
OTS-0169	<i>CTNNB1</i>	c.94G>A	p.D32N
OTS-0170	<i>CTNNB1</i>	c.101G>T	p.G34V
OTS-0171	<i>CTNNB1</i>	c.101G>A	p.G34E
OTS-0172	<i>CTNNB1</i>	c.95A>G	p.D32G
OTS-0173	<i>CTNNB1</i>	c.100G>A	p.G34R
OTS-0174	<i>CTNNB1</i>	c.97T>C	p.S33P
OTS-0175	<i>CTNNB1</i>	c.98C>A	p.S33Y
OTS-0176	<i>CTNNB1</i>	c.109T>G	p.S37A
OTS-0177	<i>CTNNB1</i>	c.95A>T	p.D32V
OTS-0178	<i>CTNNB1</i>	c.94G>C	p.D32H
OTS-0179	<i>CTNNB1</i>	c.107A>C	p.H36P
OTS-0180	<i>CTNNB1</i>	c.110C>A	p.S37Y
OTS-0181	<i>CTNNB1</i>	c.104T>G	p.I35S
OTS-0182	<i>CTNNB1</i>	c.1004A>T	p.K335I
OTS-0183	<i>CTNNB1</i>	c.109T>C	p.S37P
OTS-0184	<i>CTNNB1</i>	c.134C>A	p.S45Y
OTS-0185	<i>CTNNB1</i>	c.134C>G	p.S45C
OTS-0186	<i>CTNNB1</i>	c.97T>G	p.S33A
OTS-0187	<i>CTNNB1</i>	c.100G>C	p.G34R
OTS-0188	<i>CTNNB1</i>	c.133T>G	p.S45A
OTS-0189	<i>CTNNB1</i>	c.95A>C	p.D32A
OTS-0190	<i>CTNNB1</i>	c.1161T>A	p.N387K
OTS-0191	<i>CTNNB1</i>	c.104T>C	p.I35T
OTS-0192	<i>CTNNB1</i>	c.1004A>C	p.K335T
OTS-0193	<i>CTNNB1</i>	c.1161T>G	p.N387K
OTS-0194	<i>CTNNB1</i>	c.130C>G	p.P44A
OTS-0195	<i>CTNNB1</i>	c.122C>A	p.T41N
OTS-0196	<i>DICER1</i>	c.5113G>A	p.E1705K
OTS-0197	<i>DICER1</i>	c.5125G>A	p.D1709N
OTS-0198	<i>DICER1</i>	c.5438A>G	p.E1813G
OTS-0199	<i>DICER1</i>	c.5425G>A	p.G1809R
OTS-0200	<i>DNMT3A</i>	c.2645G>A	p.R882H
OTS-0201	<i>DNMT3A</i>	c.2644C>T	p.R882C

OTS-No	Gene	CDS	AA
OTS-0202	<i>EGFR</i>	exon 19 del	exon 19 del
OTS-0203	<i>EGFR</i>	c.2573T>G	p.L858R
OTS-0204	<i>EGFR</i>	c.2235_2249del	p.E746_A750del
OTS-0205	<i>EGFR</i>	c.2236_2250del	p.E746_A750del
OTS-0206	<i>EGFR</i>	c.2369C>T	p.T790M
OTS-0207	<i>EGFR</i>	c.2582T>A	p.L861Q
OTS-0208	<i>EGFR</i>	c.2156G>C	p.G719A
OTS-0209	<i>EGFR</i>	c.2155G>A	p.G719S
OTS-0210	<i>EGFR</i>	c.2303G>T	p.S768I
OTS-0211	<i>EGFR</i>	c.866C>T	p.A289V
OTS-0212	<i>EGFR</i>	c.1793G>T	p.G598V
OTS-0213	<i>EGFR</i>	c.2155G>T	p.G719C
OTS-0214	<i>EGFR</i>	c.2125G>A	p.E709K
OTS-0215	<i>EGFR</i>	c.323G>A	p.R108K
OTS-0216	<i>EGFR</i>	c.865G>A	p.A289T
OTS-0217	<i>EGFR</i>	c.2497T>G	p.L833V
OTS-0218	<i>EGFR</i>	c.2126A>C	p.E709A
OTS-0219	<i>EGFR</i>	c.664C>T	p.R222C
OTS-0220	<i>EGFR</i>	c.1562G>A	p.R521K
OTS-0221	<i>EGFR</i>	c.2543C>T	p.P848L
OTS-0222	<i>EGFR</i>	c.185T>G	p.L62R
OTS-0223	<i>EGFR</i>	c.2320G>A	p.V774M
OTS-0224	<i>EGFR</i>	c.2240T>C	p.L747S
OTS-0225	<i>EGFR</i>	c.787A>C	p.T263P
OTS-0226	<i>EGFR</i>	c.2504A>T	p.H835L
OTS-0227	<i>EGFR</i>	c.866C>A	p.A289D
OTS-0228	<i>EGFR</i>	c.2527G>A	p.V843I
OTS-0229	<i>EGFR</i>	c.2327G>A	p.R776H
OTS-0230	<i>EGFR</i>	c.754C>T	p.R252C
OTS-0231	<i>EGFR</i>	c.340G>A	p.E114K
OTS-0232	<i>ERBB2</i>	c.929C>T	p.S310F
OTS-0233	<i>ERBB2</i>	c.2264T>C	p.L755S
OTS-0234	<i>ERBB2</i>	c.2329G>T	p.V777L
OTS-0235	<i>ERBB2</i>	c.2033G>A	p.R678Q
OTS-0236	<i>ERBB2</i>	c.3508C>G	p.P1170A
OTS-0237	<i>ERBB2</i>	c.2524G>A	p.V842I
OTS-0238	<i>ERBB2</i>	c.929C>A	p.S310Y
OTS-0239	<i>ERBB2</i>	c.1963A>G	p.I655V
OTS-0240	<i>ERBB2</i>	c.2305G>T	p.D769Y
OTS-0241	<i>ERBB2</i>	c.2301C>G	p.I767M
OTS-0242	<i>ERBB2</i>	c.2329G>C	p.V777L
OTS-0243	<i>ERBB2</i>	c.2606T>G	p.L869R
OTS-0244	<i>ERBB2</i>	c.2584A>G	p.T862A
OTS-0245	<i>ERBB2</i>	c.2305G>C	p.D769H
OTS-0246	<i>ERBB2</i>	c.3647C>A	p.A1216D
OTS-0247	<i>ERBB2</i>	c.1960A>G	p.I654V
OTS-0248	<i>ERBB2</i>	c.2198C>T	p.T733I
OTS-0249	<i>ERBB2</i>	c.2327G>T	p.G776V
OTS-0250	<i>ERBB2</i>	c.829G>T	p.D277Y
OTS-0251	<i>ERBB2</i>	c.520C>T	p.H174Y
OTS-0252	<i>ERBB2</i>	c.808G>T	p.A270S
OTS-0253	<i>ERBB2</i>	c.1979G>A	p.G660D
OTS-0254	<i>ERBB2</i>	c.3382G>A	p.V1128I
OTS-0255	<i>ERBB2</i>	c.428G>A	p.R143Q
OTS-0256	<i>ERBB2</i>	c.874G>C	p.G292R
OTS-0257	<i>ERBB2</i>	c.2305G>A	p.D769N
OTS-0258	<i>ERBB2</i>	c.2350C>T	p.R784C
OTS-0259	<i>ERBB3</i>	c.310G>A	p.V104M
OTS-0260	<i>ERBB3</i>	c.2783A>G	p.E928G
OTS-0261	<i>ERBB3</i>	c.310G>T	p.V104L
OTS-0262	<i>ERBB3</i>	c.889G>T	p.D297Y
OTS-0263	<i>ERBB3</i>	c.850G>A	p.G284R
OTS-0264	<i>ERBB3</i>	c.695C>T	p.A232V
OTS-0265	<i>ERBB3</i>	c.994G>A	p.E332K
OTS-0266	<i>ERBB3</i>	c.3355A>T	p.S1119C
OTS-0267	<i>ERBB3</i>	c.2537G>T	p.S846I
OTS-0268	<i>ERBB3</i>	c.985A>G	p.K329E

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-0269	<i>ERBB3</i>	c.1423C>T	p.R475W
OTS-0270	<i>ERBB3</i>	c.2000G>A	p.R667H
OTS-0271	<i>ERBB3</i>	c.273G>A	p.M91I
OTS-0272	<i>ERBB3</i>	c.3348G>A	p.R1116=
OTS-0273	<i>ERBB4</i>	c.2131C>T	p.R711C
OTS-0274	<i>ERBB4</i>	c.316C>T	p.R106C
OTS-0275	<i>ERBB4</i>	c.55A>G	p.T19A
OTS-0276	<i>ERBB4</i>	c.283C>T	p.R95C
OTS-0277	<i>ERBB4</i>	c.1354G>A	p.E452K
OTS-0278	<i>ERBB4</i>	c.2512C>T	p.R838X
OTS-0279	<i>ERCC2</i>	c.934G>A	p.D312N
OTS-0280	<i>ERCC2</i>	c.713A>G	p.N238S
OTS-0281	<i>ERCC5</i>	c.1586G>C	p.C529S
OTS-0282	<i>ERCC5</i>	c.760A>G	p.M254V
OTS-0283	<i>ERCC5</i>	c.641G>A	p.R214H
OTS-0284	<i>ERCC5</i>	c.2636A>G	p.N879S
OTS-0285	<i>ERCC5</i>	c.3310G>C	p.D1104H
OTS-0286	<i>ERCC5</i>	c.3157G>C	p.G1053R
OTS-0287	<i>ESR1</i>	c.908A>G	p.K303R
OTS-0288	<i>ESR1</i>	c.1613A>G	p.D538G
OTS-0289	<i>ESR1</i>	c.1610A>C	p.Y537S
OTS-0290	<i>ESR1</i>	c.1138G>C	p.E380Q
OTS-0291	<i>ESR1</i>	c.1610A>G	p.Y537C
OTS-0292	<i>ESR1</i>	c.1609T>A	p.Y537N
OTS-0293	<i>ESR1</i>	c.1607T>A	p.L536H
OTS-0294	<i>ESR1</i>	c.739G>A	p.E247K
OTS-0295	<i>ESR1</i>	c.1387T>C	p.S463P
OTS-0296	<i>ESR1</i>	c.932C>T	p.T311M
OTS-0297	<i>ESR1</i>	c.1688C>T	p.T563M
OTS-0298	<i>EZH2</i>	c.1936T>A	p.Y646N
OTS-0299	<i>EZH2</i>	c.1937A>T	p.Y646F
OTS-0300	<i>EZH2</i>	c.1937A>C	p.Y646S
OTS-0301	<i>EZH2</i>	c.1936T>C	p.Y646H
OTS-0302	<i>EZH2</i>	c.2045C>G	p.A682G
OTS-0303	<i>EZH2</i>	c.2075C>T	p.A692V
OTS-0304	<i>FANCA</i>	c.2151G>T	p.M717I
OTS-0305	<i>FANCA</i>	c.4303G>C	p.A1435P
OTS-0306	<i>FANCA</i>	c.1501G>A	p.G501S
OTS-0307	<i>FANCA</i>	c.2426G>A	p.G809D
OTS-0308	<i>FBXW7</i>	c.1393C>T	p.R465C
OTS-0309	<i>FBXW7</i>	c.1394G>A	p.R465H
OTS-0310	<i>FBXW7</i>	c.1513C>T	p.R505C
OTS-0311	<i>FBXW7</i>	c.1436G>A	p.R479Q
OTS-0312	<i>FBXW7</i>	c.1745C>T	p.S582L
OTS-0313	<i>FBXW7</i>	c.1513C>G	p.R505G
OTS-0314	<i>FBXW7</i>	c.2065C>T	p.R689W
OTS-0315	<i>FBXW7</i>	c.832C>T	p.R278X
OTS-0316	<i>FBXW7</i>	c.1099C>T	p.R367X
OTS-0317	<i>FBXW7</i>	c.1972C>T	p.R658X
OTS-0318	<i>FBXW7</i>	c.1268G>T	p.G423V
OTS-0319	<i>FBXW7</i>	c.1514G>A	p.R505H
OTS-0320	<i>FBXW7</i>	c.1435C>G	p.R479G
OTS-0321	<i>FBXW7</i>	c.1514G>T	p.R505L
OTS-0322	<i>FBXW7</i>	c.1177C>T	p.R393X
OTS-0323	<i>FBXW7</i>	c.1435C>T	p.R479X
OTS-0324	<i>FBXW7</i>	c.1429G>A	p.G477S
OTS-0325	<i>FBXW7</i>	c.1634A>G	p.Y545C
OTS-0326	<i>FBXW7</i>	c.2077G>A	p.E693K
OTS-0327	<i>FBXW7</i>	c.1436G>C	p.R479P
OTS-0328	<i>FBXW7</i>	c.1436G>T	p.R479L
OTS-0329	<i>FBXW7</i>	c.1385C>T	p.S462F
OTS-0330	<i>FBXW7</i>	c.2066G>A	p.R689Q
OTS-0331	<i>FBXW7</i>	c.670C>T	p.R224X
OTS-0332	<i>FBXW7</i>	c.1513C>A	p.R505S
OTS-0333	<i>FBXW7</i>	c.1322G>A	p.R441Q
OTS-0334	<i>FBXW7</i>	c.664C>T	p.R222X
OTS-0335	<i>FBXW7</i>	c.1627A>G	p.R543G

OTS-No	Gene	CDS	AA
OTS-0336	<i>FBXW7</i>	c.1973G>A	p.R658Q
OTS-0337	<i>FBXW7</i>	c.41G>A	p.R14Q
OTS-0338	<i>FBXW7</i>	c.1394G>T	p.R465L
OTS-0339	<i>FBXW7</i>	c.1558G>A	p.D520N
OTS-0340	<i>FGFR2</i>	c.755C>G	p.S252W
OTS-0341	<i>FGFR2</i>	c.1650T>A	p.N550K
OTS-0342	<i>FGFR2</i>	c.1147T>C	p.C383R
OTS-0343	<i>FGFR2</i>	c.1127A>G	p.Y376C
OTS-0344	<i>FGFR2</i>	c.1650T>G	p.N550K
OTS-0345	<i>FGFR2</i>	c.1978A>G	p.K660E
OTS-0346	<i>FGFR2</i>	c.758C>G	p.P253R
OTS-0347	<i>FGFR2</i>	c.2183A>G	p.N728S
OTS-0348	<i>FGFR2</i>	c.870G>C	p.W290C
OTS-0349	<i>FGFR2</i>	c.629G>A	p.R210Q
OTS-0350	<i>FGFR2</i>	c.746C>G	p.S249C
OTS-0351	<i>FGFR3</i>	c.1124A>G	p.Y375C
OTS-0352	<i>FGFR3</i>	c.742C>T	p.R248C
OTS-0353	<i>FLT3</i>	c.2503G>T	p.D835Y
OTS-0354	<i>FLT3</i>	c.2504A>T	p.D835V
OTS-0355	<i>FLT3</i>	c.2503G>C	p.D835H
OTS-0356	<i>FLT3</i>	c.680C>T	p.T227M
OTS-0357	<i>FLT3</i>	c.2028C>A	p.N676K
OTS-0358	<i>FLT3</i>	c.2505T>G	p.D835E
OTS-0359	<i>FOXA1</i>	c.526A>G	p.I176V
OTS-0360	<i>FOXA1</i>	c.749C>T	p.S250F
OTS-0361	<i>FOXA1</i>	c.798C>G	p.F266L
OTS-0362	<i>FOXA1</i>	c.676G>A	p.D226N
OTS-0363	<i>FOXL2</i>	c.402C>G	p.C134W
OTS-0364	<i>FOXP1</i>	c.1343C>T	p.S448L
OTS-0365	<i>FOXP1</i>	c.97C>T	p.R33W
OTS-0366	<i>FOXP1</i>	c.106C>T	p.R36W
OTS-0367	<i>GNA11</i>	c.626A>T	p.Q209L
OTS-0368	<i>GNA11</i>	c.547C>T	p.R183C
OTS-0369	<i>GNAQ</i>	c.626A>T	p.Q209L
OTS-0370	<i>GNAQ</i>	c.626A>C	p.Q209P
OTS-0371	<i>GNAQ</i>	c.286A>T	p.T96S
OTS-0372	<i>GNAQ</i>	c.548G>A	p.R183Q
OTS-0373	<i>GNAS</i>	c.2530C>T	p.R844C
OTS-0374	<i>GNAS</i>	c.2531G>A	p.R844H
OTS-0375	<i>H3F3A</i>	c.83A>T	p.K28M
OTS-0376	<i>H3F3A</i>	c.103G>T	p.G35W
OTS-0377	<i>H3F3A</i>	c.103G>A	p.G35R
OTS-0378	<i>H3F3B</i>	c.110A>T	p.K37M
OTS-0379	<i>HRAS</i>	c.37G>C	p.G13R
OTS-0380	<i>HRAS</i>	c.182A>G	p.Q61R
OTS-0381	<i>HRAS</i>	c.35G>T	p.G12V
OTS-0382	<i>HRAS</i>	c.182A>T	p.Q61L
OTS-0383	<i>HRAS</i>	c.181C>A	p.Q61K
OTS-0384	<i>HRAS</i>	c.34G>A	p.G12S
OTS-0385	<i>HRAS</i>	c.35G>A	p.G12D
OTS-0386	<i>HRAS</i>	c.38G>T	p.G13V
OTS-0387	<i>HRAS</i>	c.34G>T	p.G12C
OTS-0388	<i>HRAS</i>	c.38G>A	p.G13D
OTS-0389	<i>HRAS</i>	c.37G>A	p.G13S
OTS-0390	<i>HRAS</i>	c.183G>T	p.Q61H
OTS-0391	<i>HRAS</i>	c.34G>C	p.G12R
OTS-0392	<i>HRAS</i>	c.35G>C	p.G12A
OTS-0393	<i>HRAS</i>	c.37G>T	p.G13C
OTS-0394	<i>HRAS</i>	c.175G>A	p.A59T
OTS-0395	<i>HRAS</i>	c.351G>C	p.K117N
OTS-0396	<i>HRAS</i>	c.351G>T	p.K117N
OTS-0397	<i>HRAS</i>	c.81T>C	p.H27=
OTS-0398	<i>IDH1</i>	c.395G>A	p.R132H
OTS-0399	<i>IDH1</i>	c.394C>T	p.R132C
OTS-0400	<i>IDH1</i>	c.394C>G	p.R132G
OTS-0401	<i>IDH1</i>	c.394C>A	p.R132S
OTS-0402	<i>IDH1</i>	c.395G>T	p.R132L

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-0403	<i>IDH2</i>	c.419G>A	p.R140Q
OTS-0404	<i>IDH2</i>	c.515G>A	p.R172K
OTS-0405	<i>IDH2</i>	c.516G>T	p.R172S
OTS-0406	<i>IDH2</i>	c.515G>T	p.R172M
OTS-0407	<i>IDH2</i>	c.514A>G	p.R172G
OTS-0408	<i>IDH2</i>	c.514A>T	p.R172W
OTS-0409	<i>IDH2</i>	c.516G>C	p.R172S
OTS-0410	<i>IDH2</i>	c.418C>T	p.R140W
OTS-0411	<i>IRF4</i>	c.176A>G	p.K59R
OTS-0412	<i>IRF4</i>	c.208C>G	p.L70V
OTS-0413	<i>JAK2</i>	c.1849G>T	p.V617F
OTS-0414	<i>JAK3</i>	c.1533G>A	p.M511I
OTS-0415	<i>JAK3</i>	c.2164G>A	p.V722I
OTS-0416	<i>JAK3</i>	c.1970G>A	p.R657Q
OTS-0417	<i>KDR</i>	c.1416A>T	p.Q472H
OTS-0418	<i>KDR</i>	c.889G>A	p.V297I
OTS-0419	<i>KDR</i>	c.3095G>A	p.R1032Q
OTS-0420	<i>KDR</i>	c.1040G>A	p.R347H
OTS-0421	<i>KIT</i>	c.2447A>T	p.D816V
OTS-0422	<i>KIT</i>	c.1727T>C	p.L576P
OTS-0423	<i>KIT</i>	c.1676T>A	p.V559D
OTS-0424	<i>KIT</i>	c.2446G>T	p.D816Y
OTS-0425	<i>KIT</i>	c.2446G>C	p.D816H
OTS-0426	<i>KIT</i>	c.1924A>G	p.K642E
OTS-0427	<i>KIT</i>	c.1679T>A	p.V560D
OTS-0428	<i>KIT</i>	c.1621A>C	p.M541L
OTS-0429	<i>KIT</i>	c.2466T>G	p.N822K
OTS-0430	<i>KIT</i>	c.1961T>C	p.V654A
OTS-0431	<i>KIT</i>	c.2466T>A	p.N822K
OTS-0432	<i>KIT</i>	c.1669T>G	p.W557G
OTS-0433	<i>KIT</i>	c.1676T>C	p.V559A
OTS-0434	<i>KRAS</i>	c.35G>A	p.G12D
OTS-0435	<i>KRAS</i>	c.35G>T	p.G12V
OTS-0436	<i>KRAS</i>	c.38G>A	p.G13D
OTS-0437	<i>KRAS</i>	c.34G>T	p.G12C
OTS-0438	<i>KRAS</i>	c.35G>C	p.G12A
OTS-0439	<i>KRAS</i>	c.34G>A	p.G12S
OTS-0440	<i>KRAS</i>	c.34G>C	p.G12R
OTS-0441	<i>KRAS</i>	c.37G>T	p.G13C
OTS-0442	<i>KRAS</i>	c.183A>C	p.Q61H
OTS-0443	<i>KRAS</i>	c.436G>A	p.A146T
OTS-0444	<i>KRAS</i>	c.182A>G	p.Q61R
OTS-0445	<i>KRAS</i>	c.182A>T	p.Q61L
OTS-0446	<i>KRAS</i>	c.183A>T	p.Q61H
OTS-0447	<i>KRAS</i>	c.37G>A	p.G13S
OTS-0448	<i>KRAS</i>	c.37G>C	p.G13R
OTS-0449	<i>KRAS</i>	c.437C>T	p.A146V
OTS-0450	<i>KRAS</i>	c.181C>A	p.Q61K
OTS-0451	<i>KRAS</i>	c.38G>C	p.G13A
OTS-0452	<i>KRAS</i>	c.38G>T	p.G13V
OTS-0453	<i>KRAS</i>	c.351A>T	p.K117N
OTS-0454	<i>KRAS</i>	c.175G>A	p.A59T
OTS-0455	<i>KRAS</i>	c.40G>A	p.V14I
OTS-0456	<i>KRAS</i>	c.64C>A	p.Q22K
OTS-0457	<i>KRAS</i>	c.182A>C	p.Q61P
OTS-0458	<i>KRAS</i>	c.436G>C	p.A146P
OTS-0459	<i>KRAS</i>	c.351A>C	p.K117N
OTS-0460	<i>KRAS</i>	c.57G>T	p.L19F
OTS-0461	<i>KRAS</i>	c.57G>C	p.L19F
OTS-0462	<i>KRAS</i>	c.53C>A	p.A18D
OTS-0463	<i>KRAS</i>	c.173C>T	p.T58I
OTS-0464	<i>KRAS</i>	c.187G>A	p.E63K
OTS-0465	<i>KRAS</i>	c.179G>A	p.G60D
OTS-0466	<i>KRAS</i>	c.28G>A	p.G10R
OTS-0467	<i>KRAS</i>	c.176C>G	p.A59G
OTS-0468	<i>KRAS</i>	c.181C>G	p.Q61E
OTS-0469	<i>MAP2K1</i>	c.370C>T	p.P124S

OTS-No	Gene	CDS	AA
OTS-0470	<i>MAP2K1</i>	c.167A>C	p.Q56P
OTS-0471	<i>MAP2K1</i>	c.171G>T	p.K57N
OTS-0472	<i>MAP2K1</i>	c.607G>A	p.E203K
OTS-0473	<i>MAP2K1</i>	c.371C>T	p.P124L
OTS-0474	<i>MAP2K1</i>	c.383G>A	p.G128D
OTS-0475	<i>MAP2K1</i>	c.199G>A	p.D67N
OTS-0476	<i>MAP2K1</i>	c.361T>A	p.C121S
OTS-0477	<i>MAPK1</i>	c.964G>A	p.E322K
OTS-0478	<i>MAPK1</i>	c.961G>A	p.D321N
OTS-0479	<i>MAPK1</i>	c.404G>A	p.R135K
OTS-0480	<i>MAX</i>	c.179G>A	p.R60Q
OTS-0481	<i>MAX</i>	c.83A>G	p.H28R
OTS-0482	<i>MAX</i>	c.223C>T	p.R75X
OTS-0483	<i>MED12</i>	c.131G>A	p.G44D
OTS-0484	<i>MED12</i>	c.130G>A	p.G44S
OTS-0485	<i>MET</i>	c.3029C>T	p.T1010I
OTS-0486	<i>MET</i>	c.3757T>G	p.Y1253D
OTS-0487	<i>MET</i>	c.1124A>G	p.N375S
OTS-0488	<i>MLH1</i>	c.655A>G	p.I219V
OTS-0489	<i>MLH1</i>	c.1151T>A	p.V384D
OTS-0490	<i>MPL</i>	c.1544G>T	p.W515L
OTS-0491	<i>MSH2</i>	c.965G>A	p.G322D
OTS-0492	<i>MSH2</i>	c.1738G>T	p.E580X
OTS-0493	<i>MSH2</i>	c.2038C>T	p.R680X
OTS-0494	<i>MSH6</i>	c.276A>G	p.P92=
OTS-0495	<i>MSH6</i>	c.3261del	p.F1088Sfs*2
OTS-0496	<i>MSH6</i>	c.3261dup	p.F1088Lfs*5
OTS-0497	<i>MSH6</i>	c.116G>A	p.G39E
OTS-0498	<i>MTOR</i>	c.6644C>A	p.S2215Y
OTS-0499	<i>MTOR</i>	c.6644C>T	p.S2215F
OTS-0500	<i>MTOR</i>	c.5395G>A	p.E1799K
OTS-0501	<i>MTOR</i>	c.5930C>A	p.T1977K
OTS-0502	<i>MTOR</i>	c.4379T>C	p.L1460P
OTS-0503	<i>MTOR</i>	c.7280T>A	p.L2427Q
OTS-0504	<i>MTOR</i>	c.7280T>G	p.L2427R
OTS-0505	<i>MTOR</i>	c.6016G>T	p.V2006F
OTS-0506	<i>MTOR</i>	c.7255G>A	p.E2419K
OTS-0507	<i>MTOR</i>	c.5930C>G	p.T1977R
OTS-0508	<i>MTOR</i>	c.5930C>T	p.T1977I
OTS-0509	<i>MTOR</i>	c.5553C>T	p.S1851=
OTS-0510	<i>MTOR</i>	c.6909G>A	p.L2303=
OTS-0511	<i>MYC</i>	c.77A>G	p.N26S
OTS-0512	<i>MYC</i>	c.482C>T	p.S161L
OTS-0513	<i>MYC</i>	c.221C>T	p.P74L
OTS-0514	<i>MYCN</i>	c.131C>T	p.P44L
OTS-0515	<i>MYCN</i>	c.1333G>A	p.E445K
OTS-0516	<i>MYCN</i>	c.1118G>A	p.R373Q
OTS-0517	<i>MYCN</i>	c.904C>T	p.R302C
OTS-0518	<i>MYD88</i>	c.818T>C	p.L273P
OTS-0519	<i>NF2</i>	c.169C>T	p.R57X
OTS-0520	<i>NF2</i>	c.1021C>T	p.R341X
OTS-0521	<i>NFE2L2</i>	c.235G>C	p.E79Q
OTS-0522	<i>NFE2L2</i>	c.85G>C	p.D29H
OTS-0523	<i>NFE2L2</i>	c.101G>A	p.R34Q
OTS-0524	<i>NFE2L2</i>	c.235G>A	p.E79K
OTS-0525	<i>NFE2L2</i>	c.100C>G	p.R34G
OTS-0526	<i>NFE2L2</i>	c.86A>G	p.D29G
OTS-0527	<i>NFE2L2</i>	c.246A>T	p.E82D
OTS-0528	<i>NFE2L2</i>	c.101G>C	p.R34P
OTS-0529	<i>NFE2L2</i>	c.230A>G	p.D77G
OTS-0530	<i>NFE2L2</i>	c.88C>T	p.L30F
OTS-0531	<i>NFE2L2</i>	c.92G>C	p.G31A
OTS-0532	<i>NFE2L2</i>	c.92G>A	p.G31E
OTS-0533	<i>NFE2L2</i>	c.245A>G	p.E82G
OTS-0534	<i>NFE2L2</i>	c.246A>C	p.E82D
OTS-0535	<i>NFE2L2</i>	c.85G>A	p.D29N
OTS-0536	<i>NFE2L2</i>	c.242G>A	p.G81D

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-0537	<i>NFE2L2</i>	c.244G>C	p.E82Q
OTS-0538	<i>NFE2L2</i>	c.70T>C	p.W24R
OTS-0539	<i>NFE2L2</i>	c.72G>C	p.W24C
OTS-0540	<i>NFE2L2</i>	c.83T>C	p.I28T
OTS-0541	<i>NFE2L2</i>	c.89T>G	p.L30R
OTS-0542	<i>NFE2L2</i>	c.1495C>T	p.R499W
OTS-0543	<i>NFE2L2</i>	c.230A>T	p.D77V
OTS-0544	<i>NFE2L2</i>	c.241G>A	p.G81S
OTS-0545	<i>NFE2L2</i>	c.242G>T	p.G81V
OTS-0546	<i>NFE2L2</i>	c.85G>T	p.D29Y
OTS-0547	<i>NFE2L2</i>	c.239C>A	p.T80K
OTS-0548	<i>NFE2L2</i>	c.239C>G	p.T80R
OTS-0549	<i>NFE2L2</i>	c.80A>G	p.D27G
OTS-0550	<i>NFE2L2</i>	c.91G>A	p.G31R
OTS-0551	<i>NFE2L2</i>	c.238A>C	p.T80P
OTS-0552	<i>NFE2L2</i>	c.238A>G	p.T80A
OTS-0553	<i>NFE2L2</i>	c.241G>C	p.G81R
OTS-0554	<i>NFE2L2</i>	c.1705C>T	p.R569C
OTS-0555	<i>NFE2L2</i>	c.229G>C	p.D77H
OTS-0556	<i>NFE2L2</i>	c.236A>G	p.E79G
OTS-0557	<i>NFE2L2</i>	c.245A>T	p.E82V
OTS-0558	<i>NFE2L2</i>	c.68T>G	p.L23R
OTS-0559	<i>NFE2L2</i>	c.76C>A	p.Q26K
OTS-0560	<i>NFE2L2</i>	c.79G>T	p.D27Y
OTS-0561	<i>NFE2L2</i>	c.95T>G	p.V32G
OTS-0562	<i>NFE2L2</i>	c.101G>T	p.R34L
OTS-0563	<i>NFE2L2</i>	c.1706G>A	p.R569H
OTS-0564	<i>NFE2L2</i>	c.229G>T	p.D77Y
OTS-0565	<i>NFE2L2</i>	c.236A>T	p.E79V
OTS-0566	<i>NFE2L2</i>	c.239C>T	p.T80I
OTS-0567	<i>NFE2L2</i>	c.241G>T	p.G81C
OTS-0568	<i>NFE2L2</i>	c.77A>C	p.Q26P
OTS-0569	<i>NFE2L2</i>	c.92G>T	p.G31V
OTS-0570	<i>NFE2L2</i>	c.235G>T	p.E79X
OTS-0571	<i>NOTCH1</i>	c.7541_7542del	p.P2514Rfs*4
OTS-0572	<i>NRAS</i>	c.182A>G	p.Q61R
OTS-0573	<i>NRAS</i>	c.181C>A	p.Q61K
OTS-0574	<i>NRAS</i>	c.35G>A	p.G12D
OTS-0575	<i>NRAS</i>	c.38G>A	p.G13D
OTS-0576	<i>NRAS</i>	c.182A>T	p.Q61L
OTS-0577	<i>NRAS</i>	c.34G>A	p.G12S
OTS-0578	<i>NRAS</i>	c.34G>T	p.G12C
OTS-0579	<i>NRAS</i>	c.37G>C	p.G13R
OTS-0580	<i>NRAS</i>	c.183A>T	p.Q61H
OTS-0581	<i>NRAS</i>	c.35G>T	p.G12V
OTS-0582	<i>NRAS</i>	c.35G>C	p.G12A
OTS-0583	<i>NRAS</i>	c.38G>T	p.G13V
OTS-0584	<i>NRAS</i>	c.183A>C	p.Q61H
OTS-0585	<i>NRAS</i>	c.34G>C	p.G12R
OTS-0586	<i>NT5C2</i>	c.1100G>A	p.R367Q
OTS-0587	<i>PBRM1</i>	c.2128C>T	p.R710X
OTS-0588	<i>PBRM1</i>	c.2211A>G	p.T737=
OTS-0589	<i>PBRM1</i>	c.4335A>G	p.P1445=
OTS-0590	<i>PBRM1</i>	c.3522A>T	p.P1174=
OTS-0591	<i>PIK3CA</i>	c.3140A>G	p.H1047R
OTS-0592	<i>PIK3CA</i>	c.1633G>A	p.E545K
OTS-0593	<i>PIK3CA</i>	c.1624G>A	p.E542K
OTS-0594	<i>PIK3CA</i>	c.3140A>T	p.H1047L
OTS-0595	<i>PIK3CA</i>	c.1636C>A	p.Q546K
OTS-0596	<i>PIK3CA</i>	c.263G>A	p.R88Q
OTS-0597	<i>PIK3CA</i>	c.1035T>A	p.N345K
OTS-0598	<i>PIK3CA</i>	c.1634A>G	p.E545G
OTS-0599	<i>PIK3CA</i>	c.1258T>C	p.C420R
OTS-0600	<i>PIK3CA</i>	c.2176G>A	p.E726K
OTS-0601	<i>PIK3CA</i>	c.1637A>G	p.Q546R
OTS-0602	<i>PIK3CA</i>	c.3139C>T	p.H1047Y
OTS-0603	<i>PIK3CA</i>	c.241G>A	p.E81K

OTS-No	Gene	CDS	AA
OTS-0604	<i>PIK3CA</i>	c.3145G>C	p.G1049R
OTS-0605	<i>PIK3CA</i>	c.3129G>T	p.M1043I
OTS-0606	<i>PIK3CA</i>	c.353G>A	p.G118D
OTS-0607	<i>PIK3CA</i>	c.1357G>A	p.E453K
OTS-0608	<i>PIK3CA</i>	c.1633G>C	p.E545Q
OTS-0609	<i>PIK3CA</i>	c.3127A>G	p.M1043V
OTS-0610	<i>PIK3CA</i>	c.323G>A	p.R108H
OTS-0611	<i>PIK3CA</i>	c.3062A>G	p.Y1021C
OTS-0612	<i>PIK3CA</i>	c.277C>T	p.R93W
OTS-0613	<i>PIK3CA</i>	c.331A>G	p.K111E
OTS-0614	<i>PIK3CA</i>	c.3129G>A	p.M1043I
OTS-0615	<i>PIK3CA</i>	c.3073A>G	p.T1025A
OTS-0616	<i>PIK3CA</i>	c.1637A>C	p.Q546P
OTS-0617	<i>PIK3CA</i>	c.317G>T	p.G106V
OTS-0618	<i>PIK3CA</i>	c.113G>A	p.R38H
OTS-0619	<i>PIK3CA</i>	c.1616C>G	p.P539R
OTS-0620	<i>PIK3CA</i>	c.278G>A	p.R93Q
OTS-0621	<i>PIK3CA</i>	c.1030G>A	p.V344M
OTS-0622	<i>PIK3CA</i>	c.3145G>A	p.G1049S
OTS-0623	<i>PIK3CA</i>	c.3132T>A	p.N1044K
OTS-0624	<i>PIK3CA</i>	c.1031T>G	p.V344G
OTS-0625	<i>PIK3CA</i>	c.1093G>A	p.E365K
OTS-0626	<i>PIK3CA</i>	c.112C>T	p.R38C
OTS-0627	<i>PIK3CA</i>	c.1635G>T	p.E545D
OTS-0628	<i>PIK3CA</i>	c.1624G>C	p.E542Q
OTS-0629	<i>PIK3CA</i>	c.1638G>T	p.Q546H
OTS-0630	<i>PIK3CA</i>	c.1252G>A	p.E418K
OTS-0631	<i>PIK3CA</i>	c.1173A>G	p.I391M
OTS-0632	<i>PIK3CA</i>	c.1636C>G	p.Q546E
OTS-0633	<i>PIK3CA</i>	c.2702G>T	p.C901F
OTS-0634	<i>PIK3CA</i>	c.1635G>C	p.E545D
OTS-0635	<i>PIK3CA</i>	c.3019G>C	p.G1007R
OTS-0636	<i>PIK3CA</i>	c.333G>T	p.K111N
OTS-0637	<i>PIK3CA</i>	c.1357G>C	p.E453Q
OTS-0638	<i>PIK3CA</i>	c.1625A>T	p.E542V
OTS-0639	<i>PIK3CA</i>	c.311C>T	p.P104L
OTS-0640	<i>PIK3CA</i>	c.2908G>A	p.E970K
OTS-0641	<i>PIK3CA</i>	c.3132T>G	p.N1044K
OTS-0642	<i>PIK3CA</i>	c.1639G>A	p.E547K
OTS-0643	<i>PIK3CA</i>	c.316G>C	p.G106R
OTS-0644	<i>PIK3CA</i>	c.3129G>C	p.M1043I
OTS-0645	<i>PIK3CA</i>	c.1034A>T	p.N345I
OTS-0646	<i>PIK3CB</i>	c.3151G>A	p.E1051K
OTS-0647	<i>PIK3CB</i>	c.3200A>T	p.D1067V
OTS-0648	<i>PIK3CB</i>	c.962G>A	p.R321Q
OTS-0649	<i>PIK3CB</i>	c.1408G>A	p.E470K
OTS-0650	<i>PIK3CB</i>	c.1654G>A	p.E552K
OTS-0651	<i>PIK3CD</i>	c.1558T>G	p.S520A
OTS-0652	<i>PIK3CD</i>	c.3061G>A	p.E1021K
OTS-0653	<i>PIK3CD</i>	c.2503G>A	p.A835T
OTS-0654	<i>PIK3CD</i>	c.113G>A	p.R38H
OTS-0655	<i>PIK3CD</i>	c.262C>T	p.R88C
OTS-0656	<i>PIK3CG</i>	c.2569A>G	p.T857A
OTS-0657	<i>PIK3CG</i>	c.1565A>G	p.N522S
OTS-0658	<i>PIK3CG</i>	c.1325C>A	p.S442Y
OTS-0659	<i>PIK3CG</i>	c.493G>A	p.V165I
OTS-0660	<i>PIK3CG</i>	c.2275G>A	p.V759I
OTS-0661	<i>PIK3CG</i>	c.799G>A	p.E267K
OTS-0662	<i>PIK3R1</i>	c.1690A>G	p.N564D
OTS-0663	<i>PIK3R1</i>	c.978G>A	p.M326I
OTS-0664	<i>PIK3R1</i>	c.1042C>T	p.R348X
OTS-0665	<i>PIK3R1</i>	c.1699A>G	p.K567E
OTS-0666	<i>PIK3R1</i>	c.1126G>A	p.G376R
OTS-0667	<i>PIK3R1</i>	c.1381C>T	p.R461X
OTS-0668	<i>PIK3R1</i>	c.1924C>T	p.R642X
OTS-0669	<i>PIK3R1</i>	c.1072C>T	p.R358X
OTS-0670	<i>PIK3R2</i>	c.937T>C	p.S313P

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-0671	<i>PIK3R2</i>	c.1117G>A	p.G373R
OTS-0672	<i>PIK3R2</i>	c.1669G>T	p.D557Y
OTS-0673	<i>PMS2</i>	c.1866G>A	p.M622I
OTS-0674	<i>PMS2</i>	c.1531A>G	p.T511A
OTS-0675	<i>PMS2</i>	c.1789A>T	p.T597S
OTS-0676	<i>PMS2</i>	c.2570G>C	p.G857A
OTS-0677	<i>POLE</i>	c.857C>G	p.P286R
OTS-0678	<i>POLE</i>	c.1231G>T	p.V411L
OTS-0679	<i>POLE</i>	c.1231G>C	p.V411L
OTS-0680	<i>PPP2R1A</i>	c.547C>T	p.R183W
OTS-0681	<i>PPP2R1A</i>	c.536C>G	p.P179R
OTS-0682	<i>PPP2R1A</i>	c.767C>T	p.S256F
OTS-0683	<i>PPP2R1A</i>	c.548G>A	p.R183Q
OTS-0684	<i>PPP2R1A</i>	c.544C>T	p.R182W
OTS-0685	<i>PTEN</i>	c.389G>A	p.R130Q
OTS-0686	<i>PTEN</i>	c.388C>G	p.R130G
OTS-0687	<i>PTEN</i>	c.955_958del	p.T319X
OTS-0688	<i>PTEN</i>	c.697C>T	p.R233X
OTS-0689	<i>PTEN</i>	c.388C>T	p.R130X
OTS-0690	<i>PTEN</i>	c.800del	p.K267RfsX9
OTS-0691	<i>PTEN</i>	c.968del	p.N323MfsX21
OTS-0692	<i>PTEN</i>	c.517C>T	p.R173C
OTS-0693	<i>PTEN</i>	c.518G>A	p.R173H
OTS-0694	<i>PTEN</i>	c.1003C>T	p.R335X
OTS-0695	<i>PTEN</i>	c.511C>T	p.Q171X
OTS-0696	<i>PTEN</i>	c.733C>T	p.Q245X
OTS-0697	<i>PTEN</i>	c.19G>T	p.E7X
OTS-0698	<i>PTEN</i>	c.389G>T	p.R130L
OTS-0699	<i>PTEN</i>	c.640C>T	p.Q214X
OTS-0700	<i>PTEN</i>	c.406T>C	p.C136R
OTS-0701	<i>PTEN</i>	c.49C>T	p.Q17X
OTS-0702	<i>PTEN</i>	c.892C>T	p.Q298X
OTS-0703	<i>PTEN</i>	c.278A>G	p.H93R
OTS-0704	<i>PTEN</i>	c.395G>A	p.G132D
OTS-0705	<i>PTEN</i>	c.895G>T	p.E299X
OTS-0706	<i>PTEN</i>	c.202T>C	p.Y68H
OTS-0707	<i>PTEN</i>	c.112C>T	p.P38S
OTS-0708	<i>PTEN</i>	c.376G>A	p.A126T
OTS-0709	<i>PTEN</i>	c.424C>T	p.R142W
OTS-0710	<i>PTEN</i>	c.182A>G	p.H61R
OTS-0711	<i>PTEN</i>	c.385G>A	p.G129R
OTS-0712	<i>PTEN</i>	c.389G>C	p.R130P
OTS-0713	<i>PTEN</i>	c.686C>G	p.S229X
OTS-0714	<i>PTEN</i>	c.834C>G	p.F278L
OTS-0715	<i>PTEN</i>	c.407G>A	p.C136Y
OTS-0716	<i>PTEN</i>	c.493G>A	p.G165R
OTS-0717	<i>PTEN</i>	c.737C>T	p.P246L
OTS-0718	<i>PTEN</i>	c.302T>C	p.I101T
OTS-0719	<i>PTEN</i>	c.464A>G	p.Y155C
OTS-0720	<i>PTEN</i>	c.276C>A	p.D92E
OTS-0721	<i>PTEN</i>	c.386G>A	p.G129E
OTS-0722	<i>PTEN</i>	c.1021T>G	p.F341V
OTS-0723	<i>PTEN</i>	c.103A>G	p.M35V
OTS-0724	<i>PTEN</i>	c.106G>A	p.G36R
OTS-0725	<i>PTEN</i>	c.367C>T	p.H123Y
OTS-0726	<i>PTEN</i>	c.370T>A	p.C124S
OTS-0727	<i>PTEN</i>	c.380G>A	p.G127E
OTS-0728	<i>PTEN</i>	c.376G>T	p.A126S
OTS-0729	<i>PTEN</i>	c.380G>T	p.G127V
OTS-0730	<i>PTEN</i>	c.445C>T	p.Q149X
OTS-0731	<i>PTEN</i>	c.477G>T	p.R159S
OTS-0732	<i>PTEN</i>	c.494G>A	p.G165E
OTS-0733	<i>PTPN11</i>	c.226G>A	p.E76K
OTS-0734	<i>PTPN11</i>	c.215C>T	p.A72V
OTS-0735	<i>PTPN11</i>	c.214G>A	p.A72T
OTS-0736	<i>PTPN11</i>	c.181G>T	p.D61Y
OTS-0737	<i>PTPN11</i>	c.182A>T	p.D61V

OTS-No	Gene	CDS	AA
OTS-0738	<i>PTPN11</i>	c.179G>T	p.G60V
OTS-0739	<i>PTPN11</i>	c.205G>A	p.E69K
OTS-0740	<i>RAC1</i>	c.85C>T	p.P29S
OTS-0741	<i>RAC1</i>	c.533C>T	p.A178V
OTS-0742	<i>RAC1</i>	c.86C>T	p.P29L
OTS-0743	<i>RAF1</i>	c.770C>T	p.S257L
OTS-0744	<i>RAF1</i>	c.776C>T	p.S259F
OTS-0745	<i>RBI</i>	c.1735C>T	p.R579X
OTS-0746	<i>RBI</i>	c.751C>T	p.R251X
OTS-0747	<i>RBI</i>	c.958C>T	p.R320X
OTS-0748	<i>RBI</i>	c.1363C>T	p.R455X
OTS-0749	<i>RBI</i>	c.1654C>T	p.R552X
OTS-0750	<i>RBI</i>	c.1666C>T	p.R556X
OTS-0751	<i>RBI</i>	c.1072C>T	p.R358X
OTS-0752	<i>RBI</i>	c.2359C>T	p.R787X
OTS-0753	<i>RBI</i>	c.1333C>T	p.R445X
OTS-0754	<i>RET</i>	c.2753T>C	p.M918T
OTS-0755	<i>RET</i>	c.135A>G	p.A45=
OTS-0756	<i>RET</i>	c.2307G>T	p.L769=
OTS-0757	<i>RHOA</i>	c.50G>T	p.G17V
OTS-0758	<i>RHOA</i>	c.50G>A	p.G17E
OTS-0759	<i>RHOA</i>	c.125A>G	p.Y42C
OTS-0760	<i>RHOA</i>	c.14G>A	p.R5Q
OTS-0761	<i>RHOA</i>	c.46T>C	p.C16R
OTS-0762	<i>RHOA</i>	c.139G>A	p.E47K
OTS-0763	<i>RHOA</i>	c.13C>T	p.R5W
OTS-0764	<i>RHOA</i>	c.185G>A	p.G62E
OTS-0765	<i>RHOA</i>	c.482C>T	p.A161V
OTS-0766	<i>RNF43</i>	c.433C>T	p.R145X
OTS-0767	<i>ROS1</i>	c.433A>C	p.T145P
OTS-0768	<i>ROS1</i>	c.6637G>A	p.D2213N
OTS-0769	<i>ROS1</i>	c.6686C>G	p.S2229C
OTS-0770	<i>ROS1</i>	c.6682A>C	p.K2228Q
OTS-0771	<i>ROS1</i>	c.500G>A	p.R167Q
OTS-0772	<i>RXRA</i>	c.1280C>T	p.S427F
OTS-0773	<i>RXRA</i>	c.1280C>A	p.S427Y
OTS-0774	<i>SF3B1</i>	c.2098A>G	p.K700E
OTS-0775	<i>SF3B1</i>	c.1874G>A	p.R625H
OTS-0776	<i>SF3B1</i>	c.1873C>T	p.R625C
OTS-0777	<i>SF3B1</i>	c.2225G>A	p.G742D
OTS-0778	<i>SF3B1</i>	c.1998G>C	p.K666N
OTS-0779	<i>SF3B1</i>	c.1997A>C	p.K666T
OTS-0780	<i>SMAD2</i>	c.1391C>G	p.S464X
OTS-0781	<i>SMAD2</i>	c.544C>T	p.R182X
OTS-0782	<i>SMAD4</i>	c.1082G>A	p.R361H
OTS-0783	<i>SMAD4</i>	c.1081C>T	p.R361C
OTS-0784	<i>SMAD4</i>	c.1333C>T	p.R445X
OTS-0785	<i>SMAD4</i>	c.353C>T	p.A118V
OTS-0786	<i>SMAD4</i>	c.403C>T	p.R135X
OTS-0787	<i>SMAD4</i>	c.1051G>C	p.D351H
OTS-0788	<i>SMAD4</i>	c.1157G>A	p.G386D
OTS-0789	<i>SMAD4</i>	c.1067C>T	p.P356L
OTS-0790	<i>SMAD4</i>	c.988G>A	p.E330K
OTS-0791	<i>SMAD4</i>	c.1487G>A	p.R496H
OTS-0792	<i>SMARCA4</i>	c.2729C>T	p.T910M
OTS-0793	<i>SMARCA4</i>	c.3727C>T	p.R1243W
OTS-0794	<i>SMARCA4</i>	c.3575G>A	p.R1192H
OTS-0795	<i>SMARCA4</i>	c.3694G>A	p.G1232S
OTS-0796	<i>SMARCA4</i>	c.3574C>T	p.R1192C
OTS-0797	<i>SMARCA4</i>	c.2461G>A	p.E821K
OTS-0798	<i>SMARCA4</i>	c.3566G>A	p.R1189Q
OTS-0799	<i>SMARCA4</i>	c.3469C>T	p.R1157W
OTS-0800	<i>SMARCA4</i>	c.2653C>T	p.R885C
OTS-0801	<i>SMARCA4</i>	c.2758G>A	p.E920K
OTS-0802	<i>SMARCA4</i>	c.2738C>T	p.P913L
OTS-0803	<i>SMARCA4</i>	c.3403C>T	p.R1135W
OTS-0804	<i>SPOP</i>	c.399C>G	p.F133L

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-0805	<i>SPOP</i>	c.397T>G	p.F133V
OTS-0806	<i>SPOP</i>	c.305T>G	p.F102C
OTS-0807	<i>SPOP</i>	c.391T>G	p.W131G
OTS-0808	<i>SPOP</i>	c.260A>G	p.Y87C
OTS-0809	<i>SPOP</i>	c.399C>A	p.F133L
OTS-0810	<i>SPOP</i>	c.304T>G	p.F102V
OTS-0811	<i>SPOP</i>	c.349A>G	p.M117V
OTS-0812	<i>SPOP</i>	c.398T>C	p.F133S
OTS-0813	<i>SPOP</i>	c.232G>A	p.E78K
OTS-0814	<i>SPOP</i>	c.259T>A	p.Y87N
OTS-0815	<i>SPOP</i>	c.398T>G	p.F133C
OTS-0816	<i>SPOP</i>	c.393G>C	p.W131C
OTS-0817	<i>SPOP</i>	c.362G>A	p.R121Q
OTS-0818	<i>SPOP</i>	c.388G>C	p.D130H
OTS-0819	<i>SRSF2</i>	c.284C>A	p.P95H
OTS-0820	<i>SRSF2</i>	c.284C>T	p.P95L
OTS-0821	<i>STAG2</i>	c.646C>T	p.R216X
OTS-0822	<i>STAG2</i>	c.775C>T	p.R259X
OTS-0823	<i>STAG2</i>	c.3034C>T	p.R1012X
OTS-0824	<i>STAT3</i>	c.1919A>T	p.Y640F
OTS-0825	<i>STAT3</i>	c.1981G>T	p.D661Y
OTS-0826	<i>STAT3</i>	c.1852G>C	p.G618R
OTS-0827	<i>STAT3</i>	c.1940A>T	p.N647I
OTS-0828	<i>STK11</i>	c.1062C>G	p.F354L
OTS-0829	<i>STK11</i>	c.109C>T	p.Q37X
OTS-0830	<i>STK11</i>	c.580G>T	p.D194Y
OTS-0831	<i>STK11</i>	c.647C>T	p.S216F
OTS-0832	<i>STK11</i>	c.667G>T	p.E223X
OTS-0833	<i>TERT</i> _p	C228T	NA
OTS-0834	<i>TERT</i> _p	C250T	NA
OTS-0835	<i>TET2</i>	c.1648C>T	p.R550X
OTS-0836	<i>TET2</i>	c.4393C>T	p.R1465X
OTS-0837	<i>TP53</i>	c.524G>A	p.R175H
OTS-0838	<i>TP53</i>	c.743G>A	p.R248Q
OTS-0839	<i>TP53</i>	c.818G>A	p.R273H
OTS-0840	<i>TP53</i>	c.817C>T	p.R273C
OTS-0841	<i>TP53</i>	c.742C>T	p.R248W
OTS-0842	<i>TP53</i>	c.844C>T	p.R282W
OTS-0843	<i>TP53</i>	c.637C>T	p.R213X
OTS-0844	<i>TP53</i>	c.733G>A	p.G245S
OTS-0845	<i>TP53</i>	c.747G>T	p.R249S
OTS-0846	<i>TP53</i>	c.659A>G	p.Y220C
OTS-0847	<i>TP53</i>	c.586C>T	p.R196X
OTS-0848	<i>TP53</i>	c.469G>T	p.V157F
OTS-0849	<i>TP53</i>	c.536A>G	p.H179R
OTS-0850	<i>TP53</i>	c.488A>G	p.Y163C
OTS-0851	<i>TP53</i>	c.527G>T	p.C176F
OTS-0852	<i>TP53</i>	c.818G>T	p.R273L
OTS-0853	<i>TP53</i>	c.853G>A	p.E285K
OTS-0854	<i>TP53</i>	c.734G>A	p.G245D
OTS-0855	<i>TP53</i>	c.722C>T	p.S241F
OTS-0856	<i>TP53</i>	c.578A>G	p.H193R
OTS-0857	<i>TP53</i>	c.535C>T	p.H179Y
OTS-0858	<i>TP53</i>	c.856G>A	p.E286K
OTS-0859	<i>TP53</i>	c.584T>C	p.I195T
OTS-0860	<i>TP53</i>	c.574C>T	p.Q192X
OTS-0861	<i>TP53</i>	c.701A>G	p.Y234C
OTS-0862	<i>TP53</i>	c.814G>A	p.V272M
OTS-0863	<i>TP53</i>	c.711G>A	p.M237I
OTS-0864	<i>TP53</i>	c.713G>A	p.C238Y
OTS-0865	<i>TP53</i>	c.743G>T	p.R248L
OTS-0866	<i>TP53</i>	c.473G>A	p.R158H
OTS-0867	<i>TP53</i>	c.646G>A	p.V216M
OTS-0868	<i>TP53</i>	c.832C>T	p.P278S
OTS-0869	<i>TP53</i>	c.422G>A	p.C141Y
OTS-0870	<i>TP53</i>	c.527G>A	p.C176Y
OTS-0871	<i>TP53</i>	c.455C>T	p.P152L

OTS-No	Gene	CDS	AA
OTS-0872	<i>TP53</i>	c.473G>T	p.R158L
OTS-0873	<i>TP53</i>	c.725G>T	p.C242F
OTS-0874	<i>TP53</i>	c.833C>T	p.P278L
OTS-0875	<i>TP53</i>	c.614A>G	p.Y205C
OTS-0876	<i>TP53</i>	c.641A>G	p.H214R
OTS-0877	<i>TP53</i>	c.734G>T	p.G245V
OTS-0878	<i>TP53</i>	c.451C>T	p.P151S
OTS-0879	<i>TP53</i>	c.797G>A	p.G266E
OTS-0880	<i>TP53</i>	c.839G>A	p.R280K
OTS-0881	<i>TP53</i>	c.839G>C	p.R280T
OTS-0882	<i>TP53</i>	c.707A>G	p.Y236C
OTS-0883	<i>TP53</i>	c.733G>T	p.G245C
OTS-0884	<i>TP53</i>	c.517G>T	p.V173L
OTS-0885	<i>TP53</i>	c.404G>A	p.C135Y
OTS-0886	<i>TP53</i>	c.581T>G	p.L194R
OTS-0887	<i>TP53</i>	c.796G>A	p.G266R
OTS-0888	<i>TP53</i>	c.517G>A	p.V173M
OTS-0889	<i>TP53</i>	c.380C>T	p.S127F
OTS-0890	<i>TP53</i>	c.395A>G	p.K132R
OTS-0891	<i>TP53</i>	c.824G>A	p.C275Y
OTS-0892	<i>TP53</i>	c.404G>T	p.C135F
OTS-0893	<i>TP53</i>	c.730G>T	p.G244C
OTS-0894	<i>TP53</i>	c.577C>T	p.H193Y
OTS-0895	<i>TP53</i>	c.638G>T	p.R213L
OTS-0896	<i>TP53</i>	c.749C>T	p.P250L
OTS-0897	<i>TP53</i>	c.772G>A	p.E258K
OTS-0898	<i>TP53</i>	c.578A>T	p.H193L
OTS-0899	<i>TP53</i>	c.824G>T	p.C275F
OTS-0900	<i>TP53</i>	c.736A>G	p.M246V
OTS-0901	<i>TP53</i>	c.797G>T	p.G266V
OTS-0902	<i>TP53</i>	c.476C>T	p.A159V
OTS-0903	<i>TP53</i>	c.725G>A	p.C242Y
OTS-0904	<i>TP53</i>	c.461G>T	p.G154V
OTS-0905	<i>TP53</i>	c.481G>A	p.A161T
OTS-0906	<i>TP53</i>	c.731G>A	p.G244D
OTS-0907	<i>TP53</i>	c.638G>A	p.R213Q
OTS-0908	<i>TP53</i>	c.713G>T	p.C238F
OTS-0909	<i>TP53</i>	c.715A>G	p.N239D
OTS-0910	<i>TP53</i>	c.406C>T	p.Q136X
OTS-0911	<i>TP53</i>	c.493C>T	p.Q165X
OTS-0912	<i>TP53</i>	c.536A>T	p.H179L
OTS-0913	<i>TP53</i>	c.811G>A	p.E271K
OTS-0914	<i>TP53</i>	c.437G>A	p.W146X
OTS-0915	<i>TP53</i>	c.438G>A	p.W146X
OTS-0916	<i>TP53</i>	c.592G>T	p.E198X
OTS-0917	<i>TP53</i>	c.430C>T	p.Q144X
OTS-0918	<i>TP53</i>	c.711G>T	p.M237I
OTS-0919	<i>TP53</i>	c.730G>A	p.G244S
OTS-0920	<i>TP53</i>	c.746G>T	p.R249M
OTS-0921	<i>TP53</i>	c.610G>T	p.E204X
OTS-0922	<i>TP53</i>	c.722C>G	p.S241C
OTS-0923	<i>TP53</i>	c.329G>T	p.R110L
OTS-0924	<i>TP53</i>	c.745A>T	p.R249W
OTS-0925	<i>TP53</i>	c.814G>T	p.V272L
OTS-0926	<i>TP53</i>	c.841G>C	p.D281H
OTS-0927	<i>TP53</i>	c.396G>T	p.K132N
OTS-0928	<i>TP53</i>	c.836G>A	p.G279E
OTS-0929	<i>TP53</i>	c.838A>G	p.R280G
OTS-0930	<i>TP53</i>	c.799C>T	p.R267W
OTS-0931	<i>TP53</i>	c.830G>T	p.C277F
OTS-0932	<i>TP53</i>	c.583A>T	p.I195F
OTS-0933	<i>TP53</i>	c.832C>A	p.P278T
OTS-0934	<i>TP53</i>	c.844C>G	p.R282G
OTS-0935	<i>TP53</i>	c.452C>A	p.P151H
OTS-0936	<i>TP53</i>	c.548C>G	p.S183X
OTS-0937	<i>TP53</i>	c.569C>T	p.P190L
OTS-0938	<i>TP53</i>	c.833C>G	p.P278R

OTS-Numbers: OTS-1000ex


OTS-No	Gene	CDS	AA
OTS-0939	<i>TP53</i>	c.396G>C	p.K132N
OTS-0940	<i>TP53</i>	c.475G>C	p.A159P
OTS-0941	<i>TP53</i>	c.499C>T	p.Q167X
OTS-0942	<i>TP53</i>	c.427G>A	p.V143M
OTS-0943	<i>TP53</i>	c.644G>T	p.S215I
OTS-0944	<i>TP53</i>	c.775G>T	p.D259Y
OTS-0945	<i>TP53</i>	c.700T>C	p.Y234H
OTS-0946	<i>TP53</i>	c.716A>G	p.N239S
OTS-0947	<i>TP53</i>	c.745A>G	p.R249G
OTS-0948	<i>TP53</i>	c.841G>A	p.D281N
OTS-0949	<i>TP53</i>	c.298C>T	p.Q100X
OTS-0950	<i>TP53</i>	c.310C>T	p.Q104X
OTS-0951	<i>TP53</i>	c.820G>T	p.V274F
OTS-0952	<i>TP53</i>	c.763A>T	p.I255F
OTS-0953	<i>TP53</i>	c.821T>C	p.V274A
OTS-0954	<i>TP53</i>	c.464C>A	p.T155N
OTS-0955	<i>TP53</i>	c.467G>C	p.R156P
OTS-0956	<i>TP53</i>	c.542G>A	p.R181H
OTS-0957	<i>TP53</i>	c.580C>T	p.L194F
OTS-0958	<i>TP53</i>	c.746G>C	p.R249T
OTS-0959	<i>TP53</i>	c.818G>C	p.R273P
OTS-0960	<i>TP53</i>	c.845G>A	p.R282Q
OTS-0961	<i>TP53</i>	c.772G>T	p.E258X
OTS-0962	<i>TP53</i>	c.405C>G	p.C135W
OTS-0963	<i>TP53</i>	c.541C>T	p.R181C
OTS-0964	<i>TP53</i>	c.832C>G	p.P278A
OTS-0965	<i>TP53</i>	c.856G>T	p.E286X
OTS-0966	<i>TP53</i>	c.329G>C	p.R110P
OTS-0967	<i>TP53</i>	c.514G>T	p.V172F
OTS-0968	<i>TP53</i>	c.584T>A	p.I195N
OTS-0969	<i>TP53</i>	c.511G>T	p.E171X
OTS-0970	<i>TP53</i>	c.811G>T	p.E271X
OTS-0971	<i>TP53</i>	c.523C>G	p.R175G
OTS-0972	<i>TP53</i>	c.747G>C	p.R249S
OTS-0973	<i>TP53</i>	c.375G>T	p.T125T
OTS-0974	<i>TP53</i>	c.394A>G	p.K132E
OTS-0975	<i>TP53</i>	c.487T>A	p.Y163N
OTS-0976	<i>TP53</i>	c.800G>C	p.R267P
OTS-0977	<i>TP53</i>	c.853G>T	p.E285X
OTS-0978	<i>TP53</i>	c.738G>A	p.M246I
OTS-0979	<i>TP53</i>	c.742C>G	p.R248G
OTS-0980	<i>TP53</i>	c.785G>T	p.G262V
OTS-0981	<i>TP53</i>	c.859G>T	p.E287X
OTS-0982	<i>TP53</i>	c.454C>T	p.P152S
OTS-0983	<i>TP53</i>	c.487T>C	p.Y163H
OTS-0984	<i>TP53</i>	c.524G>T	p.R175L
OTS-0985	<i>TP53</i>	c.725G>C	p.C242S
OTS-0986	<i>TP53</i>	c.794T>C	p.L265P
OTS-0987	<i>TP53</i>	c.839G>T	p.R280I
OTS-0988	<i>TP53</i>	c.848G>C	p.R283P
OTS-0989	<i>TP53</i>	c.375G>A	p.T125T
OTS-0990	<i>TP53</i>	c.388C>G	p.L130V
OTS-0991	<i>TP53</i>	c.528C>G	p.C176W
OTS-0992	<i>TP53</i>	c.535C>A	p.H179N
OTS-0993	<i>TP53</i>	c.596G>T	p.G199V
OTS-0994	<i>TP53</i>	c.643A>G	p.S215G
OTS-0995	<i>TP53</i>	c.722C>A	p.S241Y
OTS-0996	<i>TP53</i>	c.796G>T	p.G266X
OTS-0997	<i>TP53</i>	c.374C>T	p.T125M
OTS-0998	<i>TP53</i>	c.377A>G	p.Y126C
OTS-0999	<i>TP53</i>	c.517G>C	p.V173L
OTS-1000	<i>TP53</i>	c.523C>T	p.R175C
OTS-1001	<i>TP53</i>	c.530C>T	p.P177L
OTS-1002	<i>TP53</i>	c.817C>A	p.R273S
OTS-1003	<i>TP53</i>	c.434T>A	p.L145Q
OTS-1004	<i>TP53</i>	c.463A>C	p.T155P
OTS-1005	<i>TP53</i>	c.503A>G	p.H168R

OTS-No	Gene	CDS	AA
OTS-1006	<i>TP53</i>	c.535C>G	p.H179D
OTS-1007	<i>TP53</i>	c.658T>A	p.Y220N
OTS-1008	<i>TP53</i>	c.700T>A	p.Y234N
OTS-1009	<i>TP53</i>	c.743G>C	p.R248P
OTS-1010	<i>TP53</i>	c.843C>G	p.D281E
OTS-1011	<i>TP53</i>	c.380C>A	p.S127Y
OTS-1012	<i>TP53</i>	c.472C>T	p.R158C
OTS-1013	<i>TP53</i>	c.400T>C	p.F134L
OTS-1014	<i>TP53</i>	c.412G>C	p.A138P
OTS-1015	<i>TP53</i>	c.421T>C	p.C141R
OTS-1016	<i>TP53</i>	c.473G>C	p.R158P
OTS-1017	<i>TP53</i>	c.587G>C	p.R196P
OTS-1018	<i>TP53</i>	c.706T>A	p.Y236N
OTS-1019	<i>TP53</i>	c.526T>C	p.C176R
OTS-1020	<i>TP53</i>	c.526T>A	p.C176S
OTS-1021	<i>TP53</i>	c.537T>A	p.H179Q
OTS-1022	<i>TP53</i>	c.542G>C	p.R181P
OTS-1023	<i>TP53</i>	c.659A>C	p.Y220S
OTS-1024	<i>TP53</i>	c.731G>T	p.G244V
OTS-1025	<i>TP53</i>	c.733G>C	p.G245R
OTS-1026	<i>TP53</i>	c.843C>A	p.D281E
OTS-1027	<i>TP53</i>	c.845G>C	p.R282P
OTS-1028	<i>TP53</i>	c.857A>G	p.E286G
OTS-1029	<i>TP53</i>	c.661G>T	p.E221X
OTS-1030	<i>TP53</i>	c.434T>C	p.L145P
OTS-1031	<i>TP53</i>	c.451C>G	p.P151A
OTS-1032	<i>TP53</i>	c.490A>G	p.K164E
OTS-1033	<i>TP53</i>	c.613T>G	p.Y205D
OTS-1034	<i>TP53</i>	c.718A>G	p.S240G
OTS-1035	<i>TP53</i>	c.809T>C	p.F270S
OTS-1036	<i>TP53</i>	c.808T>C	p.F270L
OTS-1037	<i>TP53</i>	c.313G>T	p.G105C
OTS-1038	<i>TP53</i>	c.388C>T	p.L130F
OTS-1039	<i>TP53</i>	c.559G>A	p.G187S
OTS-1040	<i>TP53</i>	c.623A>T	p.D208V
OTS-1041	<i>TP53</i>	c.645T>G	p.S215R
OTS-1042	<i>TP53</i>	c.658T>C	p.Y220H
OTS-1043	<i>TP53</i>	c.796G>C	p.G266R
OTS-1044	<i>TP53</i>	c.809T>G	p.F270C
OTS-1045	<i>TP53</i>	c.823T>C	p.C275R
OTS-1046	<i>TP53</i>	c.840A>T	p.R280S
OTS-1047	<i>TP53</i>	c.841G>T	p.D281Y
OTS-1048	<i>TP53</i>	c.847C>T	p.R283C
OTS-1049	<i>TP53</i>	c.854A>T	p.E285V
OTS-1050	<i>TP53</i>	c.328C>T	p.R110C
OTS-1051	<i>TP53</i>	c.423C>G	p.C141W
OTS-1052	<i>TP53</i>	c.451C>A	p.P151T
OTS-1053	<i>TP53</i>	c.472C>G	p.R158G
OTS-1054	<i>TP53</i>	c.518T>C	p.V173A
OTS-1055	<i>TP53</i>	c.596G>A	p.G199E
OTS-1056	<i>TP53</i>	c.755T>C	p.L252P
OTS-1057	<i>TP53</i>	c.830G>A	p.C277Y
OTS-1058	<i>TP53</i>	c.833C>A	p.P278H
OTS-1059	<i>TP53</i>	c.842A>G	p.D281G
OTS-1060	<i>TP53</i>	c.497C>G	p.S166X
OTS-1061	<i>TP53</i>	c.395A>T	p.K132M
OTS-1062	<i>TP53</i>	c.470T>G	p.V157G
OTS-1063	<i>TP53</i>	c.530C>G	p.P177R
OTS-1064	<i>TP53</i>	c.578A>C	p.H193P
OTS-1065	<i>TP53</i>	c.632C>T	p.T211I
OTS-1066	<i>TP53</i>	c.712T>C	p.C238R
OTS-1067	<i>TP53</i>	c.916C>T	p.R306X
OTS-1068	<i>TP53</i>	c.1024C>T	p.R342X
OTS-1069	<i>VHL</i>	c.481C>T	p.R161X
OTS-1070	<i>VHL</i>	c.266T>A	p.L89H
OTS-1071	<i>VHL</i>	c.194C>A	p.S65X
OTS-1072	<i>VHL</i>	c.203C>A	p.S68X

OTS-Numbers: OTS-1000ex

OTS-No	Gene	CDS	AA
OTS-1073	VHL	c.472C>G	p.L158V
OTS-1074	VHL	c.194C>T	p.S65L
OTS-1075	VHL	c.484T>C	p.C162R
OTS-1076	VHL	c.241C>T	p.P81S
OTS-1077	VHL	c.343C>A	p.H115N
OTS-1078	VHL	c.343C>T	p.H115Y
OTS-1079	VHL	c.506T>C	p.L169P
OTS-1080	VHL	c.388G>C	p.V130L
OTS-1081	VHL	c.240T>A	p.S80R
OTS-1082	VHL	c.233A>G	p.N78S
OTS-1083	VHL	c.239G>A	p.S80N
OTS-1084	VHL	c.221T>A	p.V74D
OTS-1085	VHL	c.263G>A	p.W88X
OTS-1086	VHL	c.286C>T	p.Q96X
OTS-1087	VHL	c.217C>T	p.Q73X
OTS-1088	VHL	c.499C>T	p.R167W
OTS-1089	VHL	c.263G>T	p.W88L
OTS-1090	VHL	c.353T>C	p.L118P
OTS-1091	VHL	c.361G>T	p.D121Y
OTS-1092	VHL	c.208G>T	p.E70X
OTS-1093	VHL	c.266T>C	p.L89P
OTS-1094	VHL	c.269A>T	p.N90I
OTS-1095	VHL	c.332G>A	p.S111N
OTS-1096	VHL	c.333C>A	p.S111R
OTS-1097	VHL	c.452T>C	p.I151T
OTS-1098	VHL	c.458T>C	p.L153P
OTS-1099	VHL	c.525C>A	p.Y175X
OTS-1100	VHL	c.256C>T	p.P86S
OTS-1101	VHL	c.383T>C	p.L128P
OTS-1102	VHL	c.473T>A	p.L158Q
OTS-1103	VHL	c.473T>C	p.L158P
OTS-1104	VHL	c.490C>T	p.Q164X
OTS-1105	VHL	c.551T>C	p.L184P
OTS-1106	VHL	c.341G>C	p.G114A
OTS-1107	VHL	c.350G>A	p.W117X
OTS-1108	WT1	c.1142C>A	p.S381X
OTS-1109	WT1	c.1384C>T	p.R462W
OTS-1110	WT1	c.1372C>T	p.R458X
OTS-1111	WT1	c.1105C>T	p.R369X
OTS-1112	WT1	c.1385G>A	p.R462Q
OTS-1113	WT1	c.1107A>G	p.R369=
OTS-1114	WT1	c.594C>T	p.N198=
OTS-1115	XPO1	c.1711G>A	p.E571K
OTS-1116	XPO1	c.2246G>A	p.R749Q

OTS-Probes

	Packing Unit: 0.5mL free-standing O-ringless tube with screw cap	
	Directions of Use: Dissolve mixed primers and probes in tube with 15 μ L DNase/RNase-free distilled water "OTS-Probes Manual" may be downloaded from "Product & Service"	
	Fluorescent Dyes: HEX (wild type), VIC (mutant type)	
	Expiry Date: Within one year after dissolving	
How to Stock: At -20°C when unopened and dry At -20°C after dissolution		
Assays/Tube:	Bio-Rad QX200	Appx. 6 assays
	ThermoFisher QuantStudio 3D	Appx. 8 assays
	ThermoFisher QuantStudio Absolute Q	Appx. 12 assays

**"OTS-Probes" is the product developed and manufactured by Quantdetect, Inc., based on the patented technology developed by Iwate Medica University Institute for Biomedical Sciences and transferred to Quantdetect Inc..