

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>G	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.L655V
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.L654V
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>FGFR3</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>GNAI1</i>	c.626A>T	p.Q209L
OTS-0368	<i>GNAI1</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	IDH2	c.419G>A	p.R140Q
OTS-0404	IDH2	c.515G>A	p.R172K
OTS-0405	IDH2	c.516G>T	p.R172S
OTS-0406	IDH2	c.515G>T	p.R172M
OTS-0407	IDH2	c.514A>G	p.R172G
OTS-0408	IDH2	c.514A>T	p.R172W
OTS-0409	IDH2	c.516G>C	p.R172S
OTS-0410	IDH2	c.418C>T	p.R140W
OTS-0411	IRF4	c.176A>G	p.K59R
OTS-0412	IRF4	c.208C>G	p.L70V
OTS-0413	JAK2	c.1849G>T	p.V617F
OTS-0414	JAK3	c.1533G>A	p.M511I
OTS-0415	JAK3	c.2164G>A	p.V722I
OTS-0416	JAK3	c.1970G>A	p.R657Q
OTS-0417	KDR	c.1416A>T	p.Q472H
OTS-0418	KDR	c.889G>A	p.V297I
OTS-0419	KDR	c.3095G>A	p.R1032Q
OTS-0420	KDR	c.1040G>A	p.R347H
OTS-0421	KIT	c.2447A>T	p.D816V
OTS-0422	KIT	c.1727T>C	p.L576P
OTS-0423	KIT	c.1676T>A	p.V559D
OTS-0424	KIT	c.2446G>T	p.D816Y
OTS-0425	KIT	c.2446G>C	p.D816H
OTS-0426	KIT	c.1924A>G	p.K642E
OTS-0427	KIT	c.1679T>A	p.V560D
OTS-0428	KIT	c.1621A>C	p.M541L
OTS-0429	KIT	c.2466T>G	p.N822K
OTS-0430	KIT	c.1961T>C	p.V654A
OTS-0431	KIT	c.2466T>A	p.N822K
OTS-0432	KIT	c.1669T>G	p.W557G
OTS-0433	KIT	c.1676T>C	p.V559A
OTS-0434	KRAS	c.35G>A	p.G12D
OTS-0435	KRAS	c.35G>T	p.G12V
OTS-0436	KRAS	c.38G>A	p.G13D
OTS-0437	KRAS	c.34G>T	p.G12C
OTS-0438	KRAS	c.35G>C	p.G12A
OTS-0439	KRAS	c.34G>A	p.G12S
OTS-0440	KRAS	c.34G>C	p.G12R
OTS-0441	KRAS	c.37G>T	p.G13C
OTS-0442	KRAS	c.183A>C	p.Q61H
OTS-0443	KRAS	c.436G>A	p.A146T
OTS-0444	KRAS	c.182A>G	p.Q61R
OTS-0445	KRAS	c.182A>T	p.Q61L
OTS-0446	KRAS	c.183A>T	p.Q61H
OTS-0447	KRAS	c.37G>A	p.G13S
OTS-0448	KRAS	c.37G>C	p.G13R
OTS-0449	KRAS	c.437C>T	p.A146V
OTS-0450	KRAS	c.181C>A	p.Q61K
OTS-0451	KRAS	c.38G>C	p.G13A
OTS-0452	KRAS	c.38G>T	p.G13V
OTS-0453	KRAS	c.351A>T	p.K117N
OTS-0454	KRAS	c.175G>A	p.A59T
OTS-0455	KRAS	c.40G>A	p.V14I
OTS-0456	KRAS	c.64C>A	p.Q22K
OTS-0457	KRAS	c.182A>C	p.Q61P
OTS-0458	KRAS	c.436G>C	p.A146P
OTS-0459	KRAS	c.351A>C	p.K117N
OTS-0460	KRAS	c.57G>T	p.L19F
OTS-0461	KRAS	c.57G>C	p.L19F
OTS-0462	KRAS	c.53C>A	p.A18D
OTS-0463	KRAS	c.173C>T	p.T58I
OTS-0464	KRAS	c.187G>A	p.E63K
OTS-0465	KRAS	c.179G>A	p.G60D
OTS-0466	KRAS	c.28G>A	p.G10R
OTS-0467	KRAS	c.176C>G	p.A59G
OTS-0468	KRAS	c.181C>G	p.Q61E
OTS-0469	MAP2K1	c.370C>T	p.P124S

OTS-No	Gene	CDS	AA
OTS-0470	MAP2K1	c.167A>C	p.Q56P
OTS-0471	MAP2K1	c.171G>T	p.K57N
OTS-0472	MAP2K1	c.607G>A	p.E203K
OTS-0473	MAP2K1	c.371C>T	p.P124L
OTS-0474	MAP2K1	c.383G>A	p.G128D
OTS-0475	MAP2K1	c.199G>A	p.D67N
OTS-0476	MAP2K1	c.361T>A	p.C121S
OTS-0477	MAPK1	c.964G>A	p.E322K
OTS-0478	MAPK1	c.961G>A	p.D321N
OTS-0479	MAPK1	c.404G>A	p.R135K
OTS-0480	MAX	c.179G>A	p.R60Q
OTS-0481	MAX	c.83A>G	p.H28R
OTS-0482	MAX	c.223C>T	p.R75X
OTS-0483	MED12	c.131G>A	p.G44D
OTS-0484	MED12	c.130G>A	p.G44S
OTS-0485	MET	c.3029C>T	p.T1010I
OTS-0486	MET	c.3757T>G	p.Y1253D
OTS-0487	MET	c.1124A>G	p.N375S
OTS-0488	MLH1	c.655A>G	p.L219V
OTS-0489	MLH1	c.1151T>A	p.V384D
OTS-0490	MPL	c.1544G>T	p.W515L
OTS-0491	MSH2	c.965G>A	p.G322D
OTS-0492	MSH2	c.1738G>T	p.E580X
OTS-0493	MSH2	c.2038C>T	p.R680X
OTS-0494	MSH6	c.276A>G	p.P92=
OTS-0495	MSH6	c.3261del	p.F1088Sfs*2
OTS-0496	MSH6	c.3261dup	p.F1088Lfs*5
OTS-0497	MSH6	c.116G>A	p.G39E
OTS-0498	MTOR	c.6644C>A	p.S2215Y
OTS-0499	MTOR	c.6644C>T	p.S2215F
OTS-0500	MTOR	c.5395G>A	p.E1799K
OTS-0501	MTOR	c.5930C>A	p.T1977K
OTS-0502	MTOR	c.4379T>C	p.L1460P
OTS-0503	MTOR	c.7280T>A	p.L2427Q
OTS-0504	MTOR	c.7280T>G	p.L2427R
OTS-0505	MTOR	c.6016G>T	p.V2006F
OTS-0506	MTOR	c.7255G>A	p.E2419K
OTS-0507	MTOR	c.5930C>G	p.T1977R
OTS-0508	MTOR	c.5930C>T	p.T1977I
OTS-0509	MTOR	c.5553C>T	p.S1851=
OTS-0510	MTOR	c.6909G>A	p.L2303=
OTS-0511	MYC	c.77A>G	p.N26S
OTS-0512	MYC	c.482C>T	p.S161L
OTS-0513	MYC	c.221C>T	p.P74L
OTS-0514	MYCN	c.131C>T	p.P44L
OTS-0515	MYCN	c.1333G>A	p.E445K
OTS-0516	MYCN	c.1118G>A	p.R373Q
OTS-0517	MYCN	c.904C>T	p.R302C
OTS-0518	MYD88	c.818T>C	p.L273P
OTS-0519	NF2	c.169C>T	p.R57X
OTS-0520	NF2	c.1021C>T	p.R341X
OTS-0521	NFE2L2	c.235G>C	p.E79Q
OTS-0522	NFE2L2	c.85G>C	p.D29H
OTS-0523	NFE2L2	c.101G>A	p.R34Q
OTS-0524	NFE2L2	c.235G>A	p.E79K
OTS-0525	NFE2L2	c.100C>G	p.R34G
OTS-0526	NFE2L2	c.86A>G	p.D29G
OTS-0527	NFE2L2	c.246A>T	p.E82D
OTS-0528	NFE2L2	c.101G>C	p.R34P
OTS-0529	NFE2L2	c.230A>G	p.D77G
OTS-0530	NFE2L2	c.88C>T	p.L30F
OTS-0531	NFE2L2	c.92G>C	p.G31A
OTS-0532	NFE2L2	c.92G>A	p.G31E
OTS-0533	NFE2L2	c.245A>G	p.E82G
OTS-0534	NFE2L2	c.246A>C	p.E82D
OTS-0535	NFE2L2	c.85G>A	p.D29N
OTS-0536	NFE2L2	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.239G>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>RB1</i>	c.1735C>T	p.R579X
OTS-0746	<i>RB1</i>	c.751C>T	p.R251X
OTS-0747	<i>RB1</i>	c.958C>T	p.R320X
OTS-0748	<i>RB1</i>	c.1363G>T	p.R455X
OTS-0749	<i>RB1</i>	c.1654C>T	p.R552X
OTS-0750	<i>RB1</i>	c.1666C>T	p.R556X
OTS-0751	<i>RB1</i>	c.1072C>T	p.R358X
OTS-0752	<i>RB1</i>	c.2359C>T	p.R787X
OTS-0753	<i>RB1</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	TP53	c.396G>C	p.K132N
OTS-0940	TP53	c.475G>C	p.A159P
OTS-0941	TP53	c.499C>T	p.Q167X
OTS-0942	TP53	c.427G>A	p.V143M
OTS-0943	TP53	c.644G>T	p.S215I
OTS-0944	TP53	c.775G>T	p.D259Y
OTS-0945	TP53	c.700T>C	p.Y234H
OTS-0946	TP53	c.716A>G	p.N239S
OTS-0947	TP53	c.745A>G	p.R249G
OTS-0948	TP53	c.841G>A	p.D281N
OTS-0949	TP53	c.298C>T	p.Q100X
OTS-0950	TP53	c.310C>T	p.Q104X
OTS-0951	TP53	c.820G>T	p.V274F
OTS-0952	TP53	c.763A>T	p.I255F
OTS-0953	TP53	c.821T>C	p.V274A
OTS-0954	TP53	c.464C>A	p.T155N
OTS-0955	TP53	c.467G>C	p.R156P
OTS-0956	TP53	c.542G>A	p.R181H
OTS-0957	TP53	c.580C>T	p.L194F
OTS-0958	TP53	c.746G>C	p.R249T
OTS-0959	TP53	c.818G>C	p.R273P
OTS-0960	TP53	c.845G>A	p.R282Q
OTS-0961	TP53	c.772G>T	p.E258X
OTS-0962	TP53	c.405C>G	p.C135W
OTS-0963	TP53	c.541C>T	p.R181C
OTS-0964	TP53	c.832C>G	p.P278A
OTS-0965	TP53	c.856G>T	p.E286X
OTS-0966	TP53	c.329G>C	p.R110P
OTS-0967	TP53	c.514G>T	p.V172F
OTS-0968	TP53	c.584T>A	p.I195N
OTS-0969	TP53	c.511G>T	p.E171X
OTS-0970	TP53	c.811G>T	p.E271X
OTS-0971	TP53	c.523C>G	p.R175G
OTS-0972	TP53	c.747G>C	p.R249S
OTS-0973	TP53	c.375G>T	p.T125T
OTS-0974	TP53	c.394A>G	p.K132E
OTS-0975	TP53	c.487T>A	p.Y163N
OTS-0976	TP53	c.800G>C	p.R267P
OTS-0977	TP53	c.853G>T	p.E285X
OTS-0978	TP53	c.738G>A	p.M246I
OTS-0979	TP53	c.742C>G	p.R248G
OTS-0980	TP53	c.785G>T	p.G262V
OTS-0981	TP53	c.859G>T	p.E287X
OTS-0982	TP53	c.454C>T	p.P152S
OTS-0983	TP53	c.487T>C	p.Y163H
OTS-0984	TP53	c.524G>T	p.R175L
OTS-0985	TP53	c.725G>C	p.C242S
OTS-0986	TP53	c.794T>C	p.L265P
OTS-0987	TP53	c.839G>T	p.R280I
OTS-0988	TP53	c.848G>C	p.R283P
OTS-0989	TP53	c.375G>A	p.T125T
OTS-0990	TP53	c.388C>G	p.L130V
OTS-0991	TP53	c.528C>G	p.C176W
OTS-0992	TP53	c.535C>A	p.H179N
OTS-0993	TP53	c.596G>T	p.G199V
OTS-0994	TP53	c.643A>G	p.S215G
OTS-0995	TP53	c.722C>A	p.S241Y
OTS-0996	TP53	c.796G>T	p.G266X
OTS-0997	TP53	c.374C>T	p.T125M
OTS-0998	TP53	c.377A>G	p.Y126C
OTS-0999	TP53	c.517G>C	p.V173L
OTS-1000	TP53	c.523C>T	p.R175C
OTS-1001	TP53	c.530C>T	p.P177L
OTS-1002	TP53	c.817C>A	p.R273S
OTS-1003	TP53	c.434T>A	p.L145Q
OTS-1004	TP53	c.463A>C	p.T155P
OTS-1005	TP53	c.503A>G	p.H168R

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

	<p>容器単位： 0.5mL自立型Oリングレスループスクリューキャップチューブ</p> <p>使用方法： DNase/RNase-free distilled water を15µL 入れ、チューブの底部 および壁部に付着しているプライマー・プローブ混合物を溶解 OTS-Probesマニュアルは"Product & Service"からダウンロード 可能</p> <p>蛍光色素： HEX (wild type), VIC (mutant type)</p> <p>使用期限： 溶解後 1 年以内</p> <p>保存方法： 未開封 (乾燥品) : -20°C保存 開封溶解後 : -20°C保存</p>									
	<table border="1"> <tr> <td>解析回数/チューブ：</td> <td>Bio-Rad QX200</td> <td>約6アッセイ分</td> </tr> <tr> <td></td> <td>ThermoFisher QuantStudio 3D</td> <td>約8アッセイ分</td> </tr> <tr> <td></td> <td>ThermoFisher QuantStudio Absolute Q</td> <td>約12アッセイ分</td> </tr> </table>	解析回数/チューブ：	Bio-Rad QX200	約6アッセイ分		ThermoFisher QuantStudio 3D	約8アッセイ分		ThermoFisher QuantStudio Absolute Q	約12アッセイ分
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* 『OTS-Probes』は岩手医科大学医歯薬研究所が開発し特許化した技術の移転を受け、株式会社クオントディテクトが開発・製造したものです。