

## OTS-Organs (Product Code: OTS-Organs-A)

### <OTS-Lung>

Product Code: OTS-O-Lung-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0437	KRAS	c.34G>T	p.G12C	✓	
OTS-0435	KRAS	c.35G>T	p.G12V	✓	
OTS-0203	EGFR	c.2573T>G	p.L858R	✓	
OTS-0592	PIK3CA	c.1633G>A	OTS-0593	✓	
OTS-0872	TP53	c.473G>T	p.R158L		✓
OTS-0434	KRAS	c.35G>A	p.G12D	✓	
OTS-0848	TP53	c.469G>T	p.V157F	✓	
OTS-0593	PIK3CA	c.1624G>A	p.E542K	✓	
OTS-0204	EGFR	c.2235_2249del	p.E746_A750del	✓	
OTS-0837	TP53	c.524G>A	p.R175H	✓	
OTS-0206	EGFR	c.2369C>T	p.T790M	✓	

### <OTS-Pancreas>

Product Code: OTS-O-Pancreas-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0434	KRAS	c.35G>A	p.G12D	✓	
OTS-0435	KRAS	c.35G>T	p.G12V	✓	✓
OTS-0440	KRAS	c.34G>C	p.G12R	✓	
OTS-0099	CDKN2A	c.238C>T	p.R80X		✓
OTS-0837	TP53	c.524G>A	OTS-0594	✓	
OTS-0841	TP53	c.742C>T	p.R248W	✓	
OTS-0442	KRAS	c.183A>C	p.Q61H	✓	
OTS-0838	TP53	c.743G>A	p.R248Q	✓	
OTS-0842	TP53	c.844C>T	p.R282W	✓	
OTS-0446	KRAS	c.183A>T	p.Q61H		✓

### <OTS-Breast>

Product Code: OTS-O-Breast-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0001	AKT1	c.49G>A	p.E17K		✓
OTS-0597	PIK3CA	c.1035T>A	p.N345K	✓	
OTS-0593	PIK3CA	c.1624G>A	p.E542K	✓	
OTS-0592	PIK3CA	c.1633G>A	p.E545K	✓	
OTS-0600	PIK3CA	c.2176G>A	p.E726K	✓	
OTS-0591	PIK3CA	c.3140A>G	p.H1047R	✓	
OTS-0594	PIK3CA	c.3140A>T	p.H1047L	✓	
OTS-0837	TP53	c.524G>A	p.R175H	✓	
OTS-0841	TP53	c.742C>T	p.R248W	✓	
OTS-0839	TP53	c.818G>A	OTS-0841	✓	

### <OTS-Esophagus>

Product Code: OTS-O-Esophagus-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0232	ERBB2	c.929C>T	p.S310F		✓
OTS-0592	PIK3CA	c.1633G>A	p.E545K	✓	
OTS-0837	TP53	c.524G>A	p.R175H	✓	
OTS-0843	TP53	c.637C>T	p.R213X	✓	
OTS-0846	TP53	c.659A>G	p.Y220C	✓	
OTS-0841	TP53	c.742C>T	p.R248W	✓	
OTS-0838	TP53	c.743G>A	p.R248Q	✓	
OTS-0840	TP53	c.817C>T	p.R273C	✓	
OTS-0839	TP53	c.818G>A	p.R273H	✓	
OTS-0842	TP53	c.844C>T	OTS-0839	✓	

### <OTS-Stomach>

Product Code: OTS-O-Stomach-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0591	PIK3CA	c.3140A>G	p.H1047R	✓	
OTS-0837	TP53	c.524G>A	p.R175H	✓	
OTS-0436	KRAS	c.38G>A	p.G13D	✓	✓
OTS-0592	PIK3CA	c.1633G>A	p.E545K	✓	
OTS-0434	KRAS	c.35G>A	p.G12D	✓	
OTS-0839	TP53	c.818G>A	p.R273H	✓	
OTS-0840	TP53	c.817C>T	p.R273C	✓	
OTS-0259	ERBB3	c.310G>A	p.V104M		✓
OTS-0842	TP53	c.844C>T	p.R282W	✓	
OTS-0593	PIK3CA	c.1624G>A	p.E542K	✓	

### <OTS-Colon>

Product Code: OTS-O-Colon-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0434	KRAS	c.35G>A	p.G12D	✓	
OTS-0435	KRAS	c.35G>T	p.G12V	✓	
OTS-0837	TP53	c.524G>A	p.R175H	✓	
OTS-0061	BRAF	c.1799T>A	p.V600E	✓	
OTS-0436	KRAS	c.38G>A	p.G13D	✓	
OTS-0592	PIK3CA	c.1633G>A	p.E545K	✓	
OTS-0842	TP53	c.844C>T	p.R282W	✓	
OTS-0838	TP53	c.743G>A	p.R248Q	✓	
OTS-0591	PIK3CA	c.3140A>G	p.H1047R	✓	
OTS-0839	TP53	c.818G>A	p.R273H	✓	

## OTS-Organs (Product Code: OTS-Organs-A)

### <OTS-Liver>

Product Code: OTS-O-Liver-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0833	<i>TERT</i> p	C228T	NA	✓	
OTS-0845	<i>TP53</i>	c.747G>T	p.R249S	✓	
OTS-0162	<i>CTNNB1</i>	c.133T>C	p.S45P		✓
OTS-0172	<i>CTNNB1</i>	c.95A>G	p.D32G		✓
OTS-0164	<i>CTNNB1</i>	c.98C>G	p.S33C	✓	
OTS-0834	<i>TERT</i> p	C250T	NA	✓	
OTS-0160	<i>CTNNB1</i>	c.121A>G	p.T41A		✓
OTS-0848	<i>TP53</i>	c.469G>T	p.V157F	✓	
OTS-0184	<i>CTNNB1</i>	c.134C>A	p.S45Y		✓
OTS-0591	<i>PIK3CA</i>	c.3140A>G	p.H1047R	✓	

### <OTS-Bladder>

Product Code: OTS-O-Bladder-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0350	<i>FGFR3</i>	c.746C>G	p.S249C	✓	
OTS-0833	<i>TERT</i> p	C228T	NA	✓	
OTS-0592	<i>PIK3CA</i>	c.1633G>A	p.E545K	✓	
OTS-0838	<i>TP53</i>	c.743G>A	p.R248Q	✓	
OTS-0232	<i>ERBB2</i>	c.929C>T	p.S310F		✓
OTS-0593	<i>PIK3CA</i>	c.1624G>A	p.E542K	✓	
OTS-0881	<i>TP53</i>	c.839G>C	p.R280T	✓	
OTS-0853	<i>TP53</i>	c.853G>A	p.E285K	✓	
OTS-0280	<i>ERCC2</i>	c.713A>G	p.N238S	✓	
OTS-0834	<i>TERT</i> p	C250T	NA	✓	

### <OTS-Skin>

Product Code: OTS-O-Skin-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0061	<i>BRAF</i>	c.1799T>A	p.V600E	✓	
OTS-0062	<i>BRAF</i>	c.1798_1799delinsAA	p.V600K	✓	
OTS-0069	<i>BRAF</i>	c.1798G>A	p.V600M		✓
OTS-0572	<i>NRAS</i>	c.182A>G	p.Q61R	✓	✓
OTS-0576	<i>NRAS</i>	c.182A>T	p.Q61L		✓
OTS-0422	<i>KIT</i>	c.1727T>C	p.L576P		✓
OTS-0843	<i>TP53</i>	c.637C>T	p.R213X	✓	
OTS-0841	<i>TP53</i>	c.742C>T	p.R248W	✓	
OTS-0847	<i>TP53</i>	c.586C>T	p.R196X	✓	
OTS-0833	<i>TERT</i> p	C228T	NA	✓	

### <OTS-Hemato>

Product Code: OTS-O-Hemato-A


OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0518	<i>MYD88</i>	c.818T>C	p.L273P		✓
OTS-0413	<i>JAK2</i>	c.1849G>T	p.V617F		✓
OTS-0403	<i>IDH2</i>	c.419G>A	p.R140Q		✓
OTS-0571	<i>NOTCH1</i>	c.7541_7542del	p.P2514Rfs*4		✓
OTS-0490	<i>MPL</i>	c.1544G>T	p.W515L		✓
OTS-0757	<i>RHOA</i>	c.50G>T	p.G17V		✓
OTS-0298	<i>EZH2</i>	c.1936T>A	p.Y646N		✓
OTS-0299	<i>EZH2</i>	c.1937A>T	p.Y646F		✓
OTS-0088	<i>CD79B</i>	c.589T>C	p.Y197H		✓
OTS-0089	<i>CD79B</i>	c.590A>G	p.Y197C		✓

### <OTS-Thyroid>

Product Code: OTS-O-Thyroid-A

OTS-No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
OTS-0061	<i>BRAF</i>	c.1799T>A	p.V600E	✓	
OTS-0572	<i>NRAS</i>	c.182A>G	p.Q61R	✓	✓
OTS-0833	<i>TERT</i> p	C228T	NA	✓	
OTS-0380	<i>HRAS</i>	c.182A>G	p.Q61R	✓	✓
OTS-0834	<i>TERT</i> p	C250T	NA	✓	

### OTS-Probes

	容器単位: 0.5mL自立型Oリングレスルーブスクリューキャップチューブ						
	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_Manual_JP_221229」参照						
	使用期限: 溶解後1年以内						
	保存方法: 未開封(乾燥品): -20°C保存 開封溶解後: -20°C保存						
解析回数/チューブ:	<table border="1"> <tbody> <tr> <td>Bio-Rad QX200</td> <td>約6アッセイ分</td> </tr> <tr> <td>ThermoFisher QuantStudio 3D</td> <td>約8アッセイ分</td> </tr> <tr> <td>ThermoFisher QuantStudio Absolute Q</td> <td>約12アッセイ分</td> </tr> </tbody> </table>	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
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						

\*「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。