

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

<OTS-Lung>

Product Code: OTS-O-Lung-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	KRAS	c.34G>T	p.G12C	✓	
2	KRAS	c.35G>T	p.G12V	✓	
3	EGFR	c.2573T>G	p.L858R	✓	
4	PIK3CA	c.1633G>A	p.E545K	✓	
5	TP53	c.473G>T	p.R158L		✓
6	KRAS	c.35G>A	p.G12D	✓	
7	TP53	c.469G>T	p.V157F	✓	
8	PIK3CA	c.1624G>A	p.E542K	✓	
9	EGFR	c.2235_2249del	p.E746_A750del	✓	
10	TP53	c.524G>A	p.R175H	✓	

<OTS-Pancreas>

Product Code: OTS-O-Pancreas-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	KRAS	c.35G>A	p.G12D	✓	
2	KRAS	c.35G>T	p.G12V	✓	✓
3	KRAS	c.34G>C	p.G12R	✓	
4	CDKN2A	c.238C>T	p.R80*		✓
5	TP53	c.524G>A	p.R175H	✓	
6	TP53	c.742C>T	p.R248W	✓	
7	KRAS	c.183A>C	p.Q61H	✓	
8	TP53	c.743G>A	p.R248Q	✓	
9	TP53	c.844C>T	p.R282W	✓	
10	KRAS	c.183A>T	p.Q61H		✓

<OTS-Breast>

Product Code: OTS-O-Breast-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	AKT1	c.49G>A	p.E17K		✓
2	PIK3CA	c.1035T>A	p.N345K	✓	
3	PIK3CA	c.1624G>A	p.E542K	✓	
4	PIK3CA	c.1633G>A	p.E545K	✓	
5	PIK3CA	c.2176G>A	p.E726K	✓	
6	PIK3CA	c.3140A>G	p.H1047R	✓	
7	PIK3CA	c.3140A>T	p.H1047L	✓	
8	TP53	c.524G>A	p.R175H	✓	
9	TP53	c.742C>T	p.R248W	✓	
10	TP53	c.818G>A	p.R273H	✓	

<OTS-Esophagus>

Product Code: OTS-O-Esophagus-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	ERBB2	c.929C>T	p.S310F		✓
2	PIK3CA	c.1633G>A	p.E545K	✓	
3	TP53	c.524G>A	p.R175H	✓	
4	TP53	c.637C>T	p.R213*	✓	
5	TP53	c.659A>G	p.Y220C	✓	
6	TP53	c.742C>T	p.R248W	✓	
7	TP53	c.743G>A	p.R248Q	✓	
8	TP53	c.817C>T	p.R273C	✓	
9	TP53	c.818G>A	p.R273H	✓	
10	TP53	c.844C>T	p.R282W	✓	

<OTS-Stomach>

Product Code: OTS-O-Stomach-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	PIK3CA	c.3140A>G	p.H1047R	✓	
2	TP53	c.524G>A	p.R175H	✓	
3	KRAS	c.38G>A	p.G13D	✓	✓
4	PIK3CA	c.1633G>A	p.E545K	✓	
5	KRAS	c.35G>A	p.G12D	✓	
6	TP53	c.818G>A	p.R273H	✓	
7	TP53	c.817C>T	p.R273C	✓	
8	ERBB3	c.310G>A	p.V104M		✓
9	TP53	c.844C>T	p.R282W	✓	
10	PIK3CA	c.1624G>A	p.E542K	✓	

<OTS-Colon>

Product Code: OTS-O-Colon-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	KRAS	c.35G>A	p.G12D	✓	
2	KRAS	c.35G>T	p.G12V	✓	
3	TP53	c.524G>A	p.R175H	✓	
4	BRAF	c.1799T>A	p.V600E	✓	
5	KRAS	c.38G>A	p.G13D	✓	
6	PIK3CA	c.1633G>A	p.E545K	✓	
7	TP53	c.844C>T	p.R282W	✓	
8	TP53	c.743G>A	p.R248Q	✓	
9	PIK3CA	c.3140A>G	p.H1047R	✓	
10	TP53	c.818G>A	p.R273H	✓	

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

<OTS-Liver>

Product Code: OTS-O-Liver-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	TERTp	_C228T	NA	✓	
2	TP53	c.747G>T	p.R249S	✓	
3	CTNNB1	c.133T>C	p.S45P		✓
4	CTNNB1	c.95A>G	p.D32G		✓
5	CTNNB1	c.98C>G	p.S33C	✓	
6	TERTp	_C250T	NA	✓	
7	CTNNB1	c.121A>G	p.T41A		✓
8	TP53	c.469G>T	p.V157F	✓	
9	CTNNB1	c.134C>A	p.S45Y		✓
10	PIK3CA	c.3140A>G	p.H1047R	✓	

<OTS-Bladder>

Product Code: OTS-O-Bladder-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	FGFR3	c.746C>G	p.S249C	✓	
2	TERTp	_C228T	NA	✓	
3	PIK3CA	c.1633G>A	p.E545K	✓	
4	TP53	c.743G>A	p.R248Q	✓	
5	ERBB2	c.929C>T	p.S310F		✓
6	PIK3CA	c.1624G>A	p.E542K	✓	
7	TP53	c.839G>C	p.R280T	✓	
8	TP53	c.853G>A	p.E285K	✓	
9	ERCC2	c.713A>G	p.N238S	✓	
10	TERTp	_C250T	NA	✓	

<OTS-Skin>

Product Code: OTS-O-Skin-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	BRAF	c.1799T>A	p.V600E	✓	
2	BRAF	c.1798_1799delin	p.V600K	✓	
3	BRAF	c.1798G>A	p.V600M		✓
4	NRAS	c.182A>G	p.Q61R	✓	✓
5	NRAS	c.182A>T	p.Q61L		✓
6	KIT	c.1727T>C	p.L576P		✓
7	TP53	c.637C>T	p.R213*	✓	
8	TP53	c.742C>T	p.R248W	✓	
9	TP53	c.586C>T	p.R196*	✓	
10	TERTp	_C228T	NA	✓	

<OTS-Hemato>

Product Code: OTS-O-Hemato-A


No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	MYD88	c.818T>C	p.L273P		✓
2	JAK2	c.1849G>T	p.V617F		✓
3	IDH2	c.419G>A	p.R140Q		✓
4	NOTCH1	c.7541_7542del	p.P2514Rfs*4		✓
5	MPL	c.1544G>T	p.W515L		✓
6	RHOA	c.50G>T	p.G17V		✓
7	EZH2	c.1936T>A	p.Y646N		✓
8	EZH2	c.1937A>T	p.Y646F		✓
9	CD79B	c.589T>C	p.Y197H		✓
10	CD79B	c.590A>G	p.Y197C		✓

<OTS-Thyroid>

Product Code: OTS-O-Thyroid-A

No	Gene	CDS Change	AA Change	Validation: DNA Type	
				Human	Synthetic
1	BRAF	c.1799T>A	p.V600E	✓	
2	NRAS	c.182A>G	p.Q61R	✓	✓
3	TERTp	_C228T	NA	✓	
4	HRAS	c.182A>G	p.Q61R	✓	✓
5	TERTp	_C250T	NA	✓	

OTS-Probes



容器単位： 0.5mL自立型Oリング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：	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。