

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

### <OTS-Lung>

Product Code: OTS-O-Lung

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

### <OTS-Pancreas>

Product Code: OTS-O-Pancreas

OTS-No	Gene	CDS Change	AA Change
OTS-0434	<i>KRAS</i>	c.35G>A	p.G12D
OTS-0435	<i>KRAS</i>	c.35G>T	p.G12V
OTS-0440	<i>KRAS</i>	c.34G>C	p.G12R
OTS-0099	<i>CDKN2A</i>	c.238C>T	p.R80X
OTS-0837	<i>TP53</i>	c.524G>A	p.R175H
OTS-0841	<i>TP53</i>	c.742C>T	p.R248W
OTS-0442	<i>KRAS</i>	c.183A>C	p.Q61H
OTS-0838	<i>TP53</i>	c.743G>A	p.R248Q
OTS-0842	<i>TP53</i>	c.844C>T	p.R282W
OTS-0446	<i>KRAS</i>	c.183A>T	p.Q61H

### <OTS-Breast>

Product Code: OTS-O-Breast

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

### <OTS-Esophagus>

Product Code: OTS-O-Esophagus

OTS-No	Gene	CDS Change	AA Change
OTS-0232	<i>ERBB2</i>	c.929C>T	p.S310F
OTS-0592	<i>PIK3CA</i>	c.1633G>A	p.E545K
OTS-0837	<i>TP53</i>	c.524G>A	p.R175H
OTS-0843	<i>TP53</i>	c.637C>T	p.R213X
OTS-0846	<i>TP53</i>	c.659A>G	p.Y220C
OTS-0841	<i>TP53</i>	c.742C>T	p.R248W
OTS-0838	<i>TP53</i>	c.743G>A	p.R248Q
OTS-0840	<i>TP53</i>	c.817C>T	p.R273C
OTS-0839	<i>TP53</i>	c.818G>A	p.R273H
OTS-0842	<i>TP53</i>	c.844C>T	p.R282W

### <OTS-Stomach>

Product Code: OTS-O-Stomach

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

### <OTS-Colon>

Product Code: OTS-O-Colon

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

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

### <OTS-Liver>

Product Code: OTS-O-Liver

OTS-No	Gene	CDS Change	AA Change
OTS-0833	<i>TERT</i> <sub>p</sub>	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> <sub>p</sub>	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

OTS-No	Gene	CDS Change	AA Change
OTS-0350	<i>FGFR3</i>	c.746C>G	p.S249C
OTS-0833	<i>TERT</i> <sub>p</sub>	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> <sub>p</sub>	C250T	NA

### <OTS-Skin>

Product Code: OTS-O-Skin

OTS-No	Gene	CDS Change	AA Change
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> <sub>p</sub>	C228T	NA

### <OTS-Hemato>

Product Code: OTS-O-Hemato


OTS-No	Gene	CDS Change	AA Change
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

OTS-No	Gene	CDS Change	AA Change
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> <sub>p</sub>	C228T	NA
OTS-0380	<i>HRAS</i>	c.182A>G	p.Q61R
OTS-0834	<i>TERT</i> <sub>p</sub>	C250T	NA

### OTS-Probes

	<b>Packing Unit:</b> 0.5mL free-standing O-ringless tube with screw cap						
	<b>Directions of Use:</b> Dissolve mixed primers and probes in tube with 15 μL DNase/RNase-free distilled water "OTS-Probes Manual" may be downloaded from "Product & Service"						
	<b>Fluorescent Dyes:</b> HEX (wild type), VIC (mutant type)						
	<b>Expiry Date:</b> Within one year after dissolving						
	<b>How to Stock:</b> At -20°C when unopened and dry At -20°C after dissolution						
<b>Assays/Tube:</b>	<table border="1" style="width: 100%;"> <tbody> <tr> <td style="text-align: center;">Bio-Rad QX200</td> <td style="text-align: center;">Appx. 6 assays</td> </tr> <tr> <td style="text-align: center;">ThermoFisher QuantStudio 3D</td> <td style="text-align: center;">Appx. 8 assays</td> </tr> <tr> <td style="text-align: center;">ThermoFisher QuantStudio Absolute Q</td> <td style="text-align: center;">Appx. 12 assays</td> </tr> </tbody> </table>	Bio-Rad QX200	Appx. 6 assays	ThermoFisher QuantStudio 3D	Appx. 8 assays	ThermoFisher QuantStudio Absolute Q	Appx. 12 assays
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 Medical University Institute for Biomedical Sciences and transferred to Quantdetect Inc..