RealMOD™
Product Selection Guide for Real-time PCR
### SF Series Ordering Information

<table>
<thead>
<tr>
<th>Selection</th>
<th>Product</th>
<th>Cat. No.</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>qPCR</td>
<td>Interchelating RealMOD™ Green SF 2X qPCR mix</td>
<td>25353</td>
<td>100 rxn.</td>
</tr>
<tr>
<td>TaqMan</td>
<td>Probe RealMOD™ Probe SF 2X qPCR mix</td>
<td>25354</td>
<td>100 rxn.</td>
</tr>
<tr>
<td>qRT-PCR</td>
<td>TaqMan Probe RealMOD™ Probe SF 2X qRT-PCR mix</td>
<td>25355</td>
<td>100 rxn.</td>
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</tbody>
</table>

### RealMOD™ Green SF 2X qPCR mix

![Image of RealMOD™ Green SF 2X qPCR mix]

This product is 2X Master Mix type including DNA interchelator SFC Green dye and able to run Real-time PCR(qPCR) easily based on DNA.

- Control Real-time PCR reaction volume (2X Master mix type)
- SYBR Green has similar wavelength compare to Eva Green
- Very stable and reproducible
- Hot-start function minimizes non-specific reaction

### Technical data: Comparative data for performance using RealMOD™ Green SF 2X qPCR mix

<table>
<thead>
<tr>
<th>Company</th>
<th>Division 100 ng</th>
<th>10 ng</th>
<th>1 ng</th>
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<tbody>
<tr>
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<td></td>
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<tr>
<td></td>
<td>21.36</td>
<td>23.69</td>
<td>26.79</td>
<td>28.71</td>
<td>34.06</td>
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<td>IntrON</td>
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<tr>
<td>Company A</td>
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<td>35.32</td>
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<td>Company B</td>
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<td></td>
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<td>Division</td>
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<td>Company C</td>
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<tr>
<td>Division</td>
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<td>23.50</td>
<td>26.91</td>
<td>34.77</td>
<td>36.81</td>
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Comparison of experiment between company A,B,C and RealMOD™ Green SF 2X qPCR mix.
Analyzed result and conducted experiment through serial dilution of BioRad(CFX96) K562 gDNA
- Verify excellent amplification compare to other suppliers
- Excellent peak has shown based on Melting curve
- Analysis of Ct value has shown similar performance compare to other suppliers

www.jtronbio.com
iNtRON has launched “trendy” Kit Optimized for Real-time PCR

**RealMOD™ Probe SF 2X qPCR mix**

Cat. No. 25354  100 rxn.

This product is TaqMan Probe type and able to run Real-time PCR (qPCR) easily based on DNA:

- Control volume of Real-time PCR reaction (2X Master mix type)
- Very stable and reproducible
- Hot-start function minimizes non-specific reaction
- Excellent results of qPCR even with template containing high GC contents

Technical data: Comparative data for performance using RealMOD™ ProbeSF 2X qPCR mix

<table>
<thead>
<tr>
<th>Division</th>
<th>100 ng</th>
<th>10 ng</th>
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<th>100 pg</th>
<th>10 pg</th>
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<tbody>
<tr>
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<td>32.39</td>
<td>36.59</td>
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<tr>
<td>A</td>
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<tr>
<td>B</td>
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<td>29.12</td>
<td>32.32</td>
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<td>39.45</td>
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<tr>
<td>C</td>
<td>27.87</td>
<td>29.74</td>
<td>32.91</td>
<td>36.18</td>
<td>-</td>
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</tbody>
</table>

Comparison of experiment between company A, B, C and RealMOD Green SF 2X qPCR mix.
Analyzed result and conducted experiment through serial dilution of BioRad(CFX96) K562 gDNA

- Verify excellent amplification compare to other suppliers
- Analysis of Ct value has shown similar performance compare to other suppliers

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**RealMOD™ Probe SF 2X qRT-PCR mix**

Cat. No. 25355  100 rxn.

This product is 2X Master mix type and TaqMan Probe type and able to run Real-time PCR (qPCR) easily based on RNA:

- cDNA synthesis and Real-Time PCR are able to perform in a single tube simultaneously
- Control volume of RT-PCR reaction (2X Master mix type)
- Very stable and reproducible
- Hot-start function minimizes non-specific reaction

Technical data: Comparative data for performance using RealMOD™ ProbeSF 2X qRT-PCR mix

<table>
<thead>
<tr>
<th>Division</th>
<th>100 ng</th>
<th>10 ng</th>
<th>1 ng</th>
<th>100 pg</th>
<th>10 pg</th>
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</thead>
<tbody>
<tr>
<td>INTRON</td>
<td>24.72</td>
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<td>30.93</td>
<td>37.27</td>
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<td>27.39</td>
<td>30.85</td>
<td>36.80</td>
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</table>

Comparison of experiment between company A and RealMOD™ ProbeSF 2X qRT-PCR mix.
Analyzed result and conducted experiment through serial dilution of SNU-1 RNA as a template.

- Verify excellent amplification compare to other suppliers
- Analysis of Ct value has shown similar performance compare to other suppliers
If you use RealMOD W², “Energetic”

W² Series Ordering Information

<table>
<thead>
<tr>
<th>Selection</th>
<th>Product</th>
<th>Cat. No.</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>qPCR</td>
<td>Interchelating RealMOD™ Green W² 2x qPCR mix</td>
<td>25350</td>
<td>100 rxn.</td>
</tr>
<tr>
<td>TaqMan Probe</td>
<td>RealMOD™ Probe W² 2x qPCR mix</td>
<td>25351</td>
<td>100 rxn.</td>
</tr>
<tr>
<td>qRT-PCR</td>
<td>TaqMan Probe RealMOD™ Probe W² 2x qRT-PCR mix</td>
<td>25352</td>
<td>100 rxn.</td>
</tr>
</tbody>
</table>

RealMOD™ Green W² 2x qPCR mix

Cat. No. 25350

100 rxn.

This product is SYBR Green type and able to run Real-time PCR(qPCR) easily.

- High specificity and reproducibility
- High efficiency to detect low copy target
- Signal to noise depends on primer dimer is rare due to high sensitivity
- Excellent results of qPCR even with template containing high GC contents

Technical data : Comparative data for performance using RealMOD™ Green W² 2x qPCR mix

**Amplification result**

<table>
<thead>
<tr>
<th>Division</th>
<th>100 ng</th>
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<th>800 pg</th>
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<th>160 pg</th>
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<tbody>
<tr>
<td>Test1</td>
<td>22.27</td>
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<td>27.26</td>
<td>29.91</td>
<td>31.83</td>
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<tr>
<td>Test2</td>
<td>21.83</td>
<td>24.17</td>
<td>26.97</td>
<td>29.31</td>
<td>31.83</td>
<td>N/A</td>
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<tr>
<td>Test3</td>
<td>22.28</td>
<td>24.66</td>
<td>27.45</td>
<td>29.79</td>
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<td>N/A</td>
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<tr>
<td>Test4</td>
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<td>24.90</td>
<td>27.43</td>
<td>30.00</td>
<td>32.46</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Melting Curve**

After repetitive experiment using identical sample(K562 cell), appropriate Ct Value was observed for dilution factor(1/10)

- Analysis of melting curve verify that non-specific reaction was minimized.
- Excellent performance as an basic product.
Market verifies energetic result. RealMOD W® applies to diagnostic market as well.

### RealMOD™ Probe W² 2x qPCR mix

<table>
<thead>
<tr>
<th>Cat. No. 25351</th>
<th>100 rxn.</th>
</tr>
</thead>
</table>

This product is TaqMan Probe type and able to run Real-time PCR (qPCR) easily.
- High specificity and reproducibility
- High efficiency to detect low copy target
- Signal to noise depends on primer dimer is rare due to high sensitivity
- Excellent results of qPCR even with template containing high GC contents

#### Technical data: Comparative data for performance using RealMOD™ Probe W² 2x qPCR mix

#### Comparison of data between RealMOD™ Probe W² 2x qPCR mix using identical sample (K562 cell) and Company A

- Appropriate Ct value was observed for dilution factor (1/10)
- Despite using identical type and identical concentration of sample, Ct value was observed sooner. Compare to other suppliers, higher performance was observed.

### RealMOD™ Probe W² 2x qRT-PCR mix

<table>
<thead>
<tr>
<th>Cat. No. 25352</th>
<th>100 rxn.</th>
</tr>
</thead>
</table>

This product is TaqMan Probe type and able to run One-step RT-PCR (quantitative PCR)
- cDNA synthesis and Real-time PCR are performed in a single tube simultaneously.
- Activity is greater due to absence of RNase H activity
- Higher specificity due to Hot-start function and apply to One-step RT-PCR
- Convenient use and high reproducibility in quantitative RT-PCR experiment

#### Technical data: Comparative data for performance using RealMOD™ Probe W² 2x qRT-PCR mix

#### Comparison of data between RealMOD™ Probe W² 2x qRT-PCR mix using identical sample (K562 cell) and Company A

- Appropriate Ct value was observed for dilution factor (1/10)
- Despite using identical type and identical concentration of sample, Ct value was observed sooner. Compare to other suppliers, higher performance was observed.
If you use RealMOD AP/HP, “Comfortable”
Stop worrying about including ROX dye

RealMOD™ Green AP 5x qPCR mix
Cat. No. 25348
250 rxn.
Run Real-time PCR regardless of presence of ROX dye
- High specificity and reproducibility
- High efficiency to detect low copy target
- Signal to noise is rare due to high sensitivity
- Excellent result even containing high GC contents and long template (up to 500bp)

Technical data: Comparative data for performance using RealMOD™ Green AP 5x qPCR mix based on presence of ROX dye

Verify results according to presence of ROX dye in the ABI 7500
- Result was verified regardless of ROX dye presence.
- Peak patterns are similar

RealMOD™ Probe HP 5x qPCR mix
Cat. No. 25349
250 rxn.
This product is probe type and run Real-time PCR regardless of presence of ROX dye
- High specificity and reproducibility with gDNA or cDNA
- Optimized as a 5x master mix type and for singleplex and duplex
- Control Real-time PCR reaction volume
- Excellent result even containing high GC contents or AT contents

Technical data: Comparative data for performance using RealMOD™ Probe HP 5x qPCR mix based on presence of ROX dye

Verify results according to presence of ROX dye in the ABI 7500
- In the presence of ROX dye, dynamic range of patterns and Rn value have few changes because of standard value. However, there is no effects on Ct value.
## RealMOD qRT-PCR (Interchanging) Ordering Information

<table>
<thead>
<tr>
<th>Selection</th>
<th>Product</th>
<th>Cat. No.</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>qRT-PCR</td>
<td>RealMOD™ Green qRT-PCR mix (LR)</td>
<td>25107</td>
<td>100 rxn.</td>
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<tr>
<td>Interchanging</td>
<td>RealMOD™ Green qRT-PCR mix</td>
<td>20109</td>
<td>100 rxn.</td>
</tr>
</tbody>
</table>

### RealMOD™ Green qRT-PCR mix (LR)

- Bio-Rad: CFX96 Touch™, CFX384 Touch™, Chromo4™, CFX Connect™, Opticon® 2, MiniOpticon®
- BioGene: SyncChrom™
- Cepheid: SmartCycler®, GeneXpert
- Eppendorf: Mastercycler® ep realplex, ep realplex S, ep realplex 4, ep realplex 4s, Mastercycler Pro, Pro S, Pro 384, Nexus Mastercycler Nexus gradient, Nexus eco, Nexus flat
- Engima Diagnostics: Enigma™ ML
- Roche: LightCycler® 2.0 / 1.5 Instrument, LightCycler® 480 System (system I, system II), LightCycler® 1.5/36 System, Nano System
- Qiagen: Rotor-Gene™ Q-Pure, Rotor-Gene™ 6000
- Takara: Thermal Cycler Dice™
- DNA-Technology: DT-96, DT-Iite, DT-322
- Bioneer: Exicycletm
- Corbett: Rotor Gene 3000, 6200, 6240, 6500, 6540, 6600
- Thermo Scientific: PikoReal
- Funglyn: FTC-3000

One-step qRT-PCR kit perform cDNA synthesis to Real-time PCR at a once.

- Optimized product for instrument

| RealMOD™ Green qRT-PCR mix | Cat. No. 25109 | 100 rxn. |

- Applied Biosystems: 7500, 7500 Fast, 7500 Fast Dx 7500 for Human, Via™ 7, QuantStudio™ 12K Flex
- BioGene: InSyte™
- Stratagene: Mx3000P®, Mx3005P®, Mx4000P®
- Illumina: The Eco™
- Analytijena: qTower, qTower 2.0, qTower 2.2
- Abbott Molecular: m200RT

One-step qRT-PCR kit perform cDNA synthesis to Real-time PCR at a once.

- Optimized product for instrument