### **Gene Information**

Gene Symbol  FLRT3  Organism  Human  Gene Summary  This gene encodes a member of the fibronectin leucine rich transmembrane protein (FLRT) family. FLRTs may function in cell adhesion and/or receptor signalling. Their protein structures resemble small leucine-rich proteoglycans found in the extracellus matrix. This gene is expressed in many tissues. Two alternatively spliced transcript variants encoding the same protein have been described for this gene.  Gene Aliases  Not Available  RefSeq Accession No.  NC_000020.10, NT_011387.8		
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·	Gene Aliases	Available
UniGene ID Hs.41296	RefSeq Accession No.	000020.10, NT_011387.8
	UniGene ID	11296
Ensembl Gene ID ENSG00000125848	Ensembl Gene ID	GG00000125848
Entrez Gene ID 23767	Entrez Gene ID	67

### **Assay Information**

Unique Assay ID	qHsaCED0021219
Assay Type	SYBR® Green
Detected Coding Transcript(s)	ENST00000378053, ENST00000341420, ENST00000541882
Amplicon Context Sequence	AGAGTTGTCCTTCTTAGTGCCAGCTTCTGCATAGTCATCCTTTCTTCTCCCCTTTGCTATATGCACAGTTCCTTGAGAAGAGCGATCCATTCCTATGAACATA
Amplicon Length (bp)	75
Chromosome Location	20:14306398-14306502
Assay Design	Exonic
Purification	Desalted

### Validation Results

Efficiency (%)	95
R <sup>2</sup>	0.9996
cDNA Cq	23.3
cDNA Tm (Celsius)	79
gDNA Cq	23.31



Specificity (%)	100
opecificity (70)	100

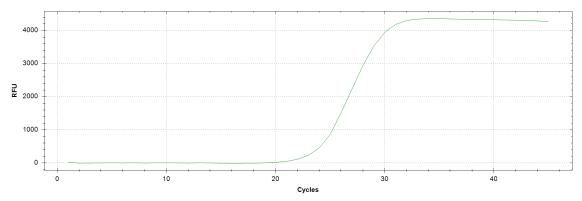
Information to assist with data interpretation is provided at the end of this report.



### FLRT3, Human

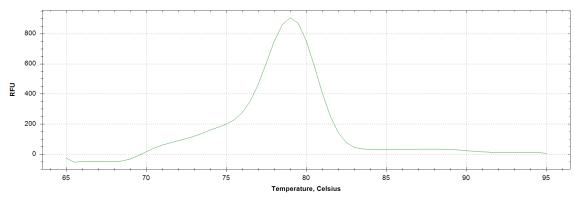
#### **Amplification Plot**

Amplification of cDNA generated from 25 ng of universal reference RNA



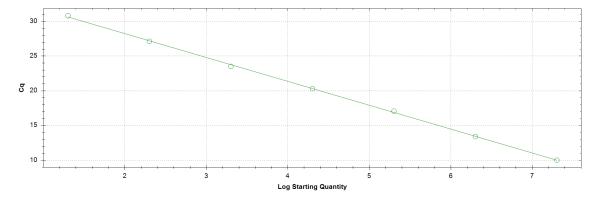
#### **Melt Peak**

Melt curve analysis of above amplification



#### **Standard Curve**

Standard curve generated using 20 million copies of template diluted 10-fold to 20 copies





## Products used to generate validation data

Real-Time PCR Instrument	CFX384 Real-Time PCR Detection System
Reverse Transcription Reagent	iScript™ Advanced cDNA Synthesis Kit for RT-qPCR
Real-Time PCR Supermix	SsoAdvanced™ SYBR® Green Supermix
Experimental Sample	qPCR Human Reference Total RNA

### Data Interpretation

Unique Assay ID	This is a unique identifier that can be used to identify the assay in the literature and online.
Detected Coding Transcript(s)	This is a list of the Ensembl transcript ID(s) that this assay will detect. Details for each transcript can be found on the Ensembl website at www.ensembl.org.
Amplicon Context Sequence	This is the amplicon sequence with additional base pairs added to the beginning and/or end of the sequence. This is in accordance with the minimum information for the publication of real-time quantitative PCR experiments (MIQE) guidelines. For details, please refer to the following publication, "Primer Sequence Disclosure: A Clarification of the MIQE Guidelines" (Bustin et al 2011).
Chromosome Location	This is the chromosomal location of the amplicon context sequence within the genome.
Assay Design	Exonic: Primers sit within the same exon in the mRNA transcript and can potentially co-amplify genomic DNA. If performing gene expression analysis, it is suggested that the samples be treated with a DNase to eliminate potential unwanted signal from contaminating genomic DNA.
	Exon-exon junction: One primer sits on an exon-exon junction in mRNA. When performing gene expression analysis, this design approach will prevent unwanted signal from contaminating genomic DNA.
	Intron-spanning: Primers sit within different exons while spanning a large intron in the mRNA (intron is greater than 750bp). When performing gene expression analysis, this design approach should limit potential unwanted signal from contaminating genomic DNA.
	Small intron-spanning: Primers sit within different exons with a short intron in between (intron is smaller than 750bp). Small introns may not prevent unwanted signal from contaminating genomic DNA.
Efficiency	Assay efficiency was determined using a seven-point standard curve from 20 copies to 20 million copies. While an efficiency of 100% represents a perfect doubling of template at every cycle and is ideal, typical ranges of good assay efficiency are between 90-110%. For difficult targets, assay efficiency outside of this range are accepted and reported accordingly.
R <sup>2</sup>	The R <sup>2</sup> represents the linearity of the standard curve and how well the standard curve data points fit the linear regression line. Acceptable values are >0.98.



cDNA Cq	Cq value obtained from 25ng of cDNA transcribed from universal RNA when performing wet-lab validation of the assay.
	Note: Not all genes will be expressed at a detectable level in the universal RNA sample.
cDNA Tm	Melting temperature of the amplicon when running a melt curve analysis.
gDNA Cq	Cq value obtained when running the assay with 2.5ng of genomic DNA. This is more than a moderate level of genomic DNA contamination. Intron-spanning and exon-exon junction assay designs can minimize or eliminate genomic DNA detection.  Note: Genomic DNA contamination is often present at variable levels. If concerned
	about genomic DNA contamination, the genomic DNA contamination control assay is recommended to run with your sample to determine if genomic DNA levels are sufficient to negatively impact results.
Specificity	This value is the percent of specific amplicon reads as measured by next generation sequencing (NGS). While 100% specificity is desirable, small decreases in specificity (<1%) can be due to NGS read errors. More significant reductions are likely due to co-amplification of homologous regions.
	Note: Since gene expression can be cell type and condition specific, the exact level and impact of co-amplification in a given sample is impossible to predict. If co-amplification is detected, it should be taken into consideration and reported when analyzing gene expression results.

