

XM_005682367.3	GGAAACCGCAACCGGTTAGCAGACCAGAGAGTGACCCGGATGATGGCGGCCGGCGCGGCCT	60
H	GGAAACCGCAACCGGTTAGCAGACCAGAGAGTGACCCGGATGATGGCGGCCGGCGCGGCCT	60
D	GGAAACCGCAACCGGTTAGCAGACCAGAGAGTGACCCGGATGATGGCGGCCGGCGCGGCCT	60

XM_005682367.3	TAGGCTTGGCCCTTTGGCTACTACTGCCGCCAGTGGGCGTGGGAGGGGCAGGGCCCCCGC	120
H	TAGGCTTGGCCCTGTGGCTACTACTGCCGCCAGTGGGCGTGGGAGGGGCAGGGCCCCCGC	120
D	TAGGCTTGGCCCTTTGGCTACTACTGCCGCCAGTGGGCGTGGGAGGGGCAGGGCCCCCGC	120

XM_005682367.3	CGATCCAGGACGGCGAGTTCACGTTCCCTGCTCCCTGCGGGGCGGAAGCAGTGTTCATC	180
H	CGATCCAGGACGGCGAGTTCACGTTCCCTGCTCCCTGCGGGGCGGAAGCAGTGTTCATC	180
D	CGATCCAGGACGGCGAGTTCACGTTCCCTGCTCCCTGCGGGGCGGAAGCAGTGTTCATC	180

XM_005682367.3	AGTCCGCGCCGGCCAAACGCAAGCCTTGAGACTGAGTACCAGGTGATCGGAGGTGCTGGGC	240
H	AGTCCGCGCCGGCCAAACGCAAGCCTTGAGACTGAGTACCAGGTGATCGGAGGTGCTGGGC	240
D	AGTCCGCGCCGGCCAAACGCAAGCCTTGAGACTGAGTACCAGGTGATCGGAGGTGCTGGGC	240

XM_005682367.3	TGGACGTGGATTTTCAGTCTGGAGAGCCCTCAGGGAGTGCTGCTGGTCAGCGAGTCCCGCA	300
H	TGGACGTGGATTTTCAGTCTGGAGAGCCCTCAGGGAGTGCTGCTGGTCAGCGAGTCCCGCA	300
D	TGGACGTGGATTTTCAGTCTGGAGAGCCCTCAGGGAGTGCTGCTGGTCAGCGAGTCCCGCA	300

XM_005682367.3	AGGCAGACGGTGTGCACACGGTGGAGCCACGGAGGCCGGGGACTACAAGCTGTGCTTTG	360
H	AGGCAGACGGTGTGCACACGGTGGAGCCACGGAGGCCGGGGACTACAAGCTGTGCTTTG	360
D	AGGCAGACGGTGTGCACACGGTGGAGCCACGGAGGCCGGGGACTACAAGCTGTGCTTTG	360

XM_005682367.3	ACAACTCCTTCAGCACCATCTCGGAGAAGCTTGTTCTTTGAACTCATCTTTGACAGCC	420
H	ACAACTCCTTCAGCACCATCTCGGAGAAGCTTGTTCTTTGAACTCATCTTTGACAGCC	420
D	ACAACTCCTTCAGCACCATCTCGGAGAAGCTTGTTCTTTGAACTCATCTTTGACAGCC	420

XM_005682367.3	TACAGGATGAGGAGGAGGTCGAGGGCTGGGCAGAGGCTGTGGAGCCTGAGGAGAT	475
H	TACAGGATGAGGAGGAGGTCGAGGGCTGGGCAGAGGCTGTGGAGCCTGAGGAGAT	475
D	TACAGGATGAGGAGGAGGTCGAGGGCTGGGCAGAGGCTGTGGAGCCTGAGGAGAT	475

Figure S1. *TMED1* gene (475-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank (gb|XM 005682367.3).

XM_005682299.3	TGCAGAGCTGCTGCCGGACGAGTGACTTAAAGGGCCCCGCGGCCACCGCCCCCTCGGCC	60
H	TGCAGAGCTGCTGCCGGACGAGTGACTTAAAGGGCCCCGCGGCCACCGCCCCCTCGGCC	60
D	TGCAGAGCTGCTGCCGGACGAGTGACTTAAAGGGCCCCGCGGCCACCGCCCCCTCGGCC	60

XM_005682299.3	GCCATGCTGCTACCCGTGCCGCTGCTGCTCGGCCCTTCTCGGCCTGGCCGCGCTGATCCC	120
H	GCCATGCTGCTACCCGTGCCGCTGCTGCTCGGCCCTTCTCGGCCTGGCCGCGCTGATCCC	120
D	GCCATGCTGCTACCCGTGCCGCTGCTGCTCGGCCCTTCTCGGCCTGGCCGCGCTGATCCC	120

XM_005682299.3	ACCGTTTACTTCAAGGAGCAGTTTCTGGACGGAGACGGGTGGACCGAGCGCTGGATCGAA	180
H	ACCGTTTACTTCAAGGAGCAGTTTCTGGACGGAGACGGGTGGACCGAGCGCTGGATCGAA	180
D	ACCGTTTACTTCAAGGAGCAGTTTCTAGACGGAGACGGGTGGACCGAGCGCTGGATCGAA	180

XM_005682299.3	TCCAAACACAAACCGGATTTTGGCAAATTCGTTCTCAGTTCGGCAAGTTCTATGGTGAC	240
H	TCCAAACACAAACCGGATTTTGGCAAATTCGTTCTCAGTTCGGCAAGTTCTATGGTGAC	240
D	TCCAAACACAAACCGGATTTTGGCAAATTCGTTCTCAGTTCGGCAAGTTCTATGGTGAC	240

XM_005682299.3	CAGGAGAAAGATAAAGGCCTGCAGACTAGCCAGGATGCCCGTTTCTACGCTCTGTCCGCG	300
H	CAGGAGAAAGATAAAGGCCTGCAGACTAGCCAGGATGCCCGTTTCTACGCTCTGTCCGCG	300
D	CAGGAGAAAGATAAAGGCCTGCAGACTAGCCAGGATGCCCGTTTCTACGCTCTGTCCGCG	300

XM_005682299.3	AGATTTGAGCCCTTCAGCAACAAGGGTCAGACGCTGGTGGTGCAGTTCACGGTGAAACAC	360
H	AGATTTGAGCCCTTCAGCAACAAGGGTCAGACGCTGGTGGTGCAGTTCACGGTGAAACAC	360
D	AGATTTGAGCCCTTCAGCAACAAGGGTCAGACGCTGGTGGTGCAGTTCACGGTGAAACAC	360

XM_005682299.3	GAGCAGAACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCAGCTGGTTGGATCAG	420
H	GAGCAGAACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCAGCTGGTTGGATCAG	420
D	GAGCAGAACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCAGCTGGTTGGATCAG	420

XM_005682299.3	ACAGACATGCACGGGGACTCCGAATACAACATCATGTTTGGCCCGGACATCTGTGGACCT	480
H	ACAGACATGCACGGGGACTCCGAATACAACATCATGTTTGGCCCGGACATCTGTGGACCT	480
D	ACAGACATGCACGGGGACTCCGAATACAACATCATGTTTGGCCCGGACATCTGTGGACCT	480

XM_005682299.3	GGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG 517	
H	GGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG 517	
D	GGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG 517	

Figure S2. *CALR* gene (517-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_005682299.3|.

XM_018051277.1	TCTGAGGCTGACAGGGCAGGGCCAGCCGCGCCCCACCCGTGCGCATGGAGCTACCTCCAGG	60
H	TCTGAGGCTGACAGGGCAGGGCCAGCCGCGCCCCACCCGTGCGCATGGAGCTACCTCCAGG	60
D	TCTGAGGCTGACAGGGCAGGGCCAGCCGCGCCCCACCCGTGCGCATGGAGCTACCTCCAGG	60

XM_018051277.1	GCCGCGCGACGATCCCCACACCTGGGACGATGACTCGGACCCGGAGCTGGAGCCTGACCC	120
H	GCCGCGCGACGATCCCCACACCTGGGACGATGACTCGGACCCGGAGCTGGAGCCTGACCC	120
D	GCCGCGCGACGATCCCCACACCTGGGACGATGACTCGGACCCGGAGCTGGAGCCTGACCC	120

XM_018051277.1	CGACGCGCAGGCCGAGGCTTACGTGGCCCGTGTGCTCAGTCCTCCGAAACTCGGGCTGGC	180
H	CGACGCGCAGGCCGAGGCTTACGTGGCCCGTGTGCTCAGTCCTCCGAAACTCGGGCTGGC	180
D	CGACGCGCAGGCCGAGGCTTACGTGGCCCGTGTGCTCAGTCCTCCGAAACTCGGGCTGGC	180

XM_018051277.1	ACCTCCACGCGCCCTCCTTTGCCCGCGCCTACGGTGTCCCTTGGCGCTCTGGAACCGCG	240
H	ACCTCCACGAGCCCTCCTTTGCCCGCGCCTACGGTGTCCCTTGGCGCTCTGGAACCGCG	240
D	ACCTCCACGCGCCCTCCTTTGCCCGCGCCTACGGTGTCCCTTGGCGCTCTGGAACCGCG	240

XM_018051277.1	GGCCGCGTCCAAGGGCTCGACTGTGGCGGTTCCGGGCCTGCTAAGCCTACCCCGGAGCT	300
H	GGCCGCGTCCAAGGGCTCGACTGTGGCGGTTCCGGGCCTGCTAAGCCTACCCCGGAGCT	300
D	GGCCGCGTCCAAGGGCTCGACTGTGGCGGTTCCGGGCCTGCTAAGCCTACCCCGGAGCT	300

XM_018051277.1	GCTTCTCGAGATCTGCGCCTACCTCGACG	329
H	GCTTCTCGAGATCTGCGCCTACCTCGACG	329
D	GCTTCTCGAGATCTGCGCCTACCTCGACG	329

Figure S3. *FBXW9* gene (329-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018051277.1|.

XM_018056433.1	GGTTCGTGCCGCGCTTCAACTTCACCCCGAAGGACCTGACCCGCTTCGTGGATTTCAACA	60
H	GGTTCGTGCCGCGCTTCAACTTCACCCCGAAGGACCTGACCCGCTTCGTGGATTTCAACA	60
D	GGTTCGTGCCGCGCTTCAACTTCACCCCGAAGGACCTGACCCGCTTCGTGGATTTCAACA	60

XM_018056433.1	TCAAGGGGCGCGACGTGATTGTCTTCCTGCACATCCAGAAGACCGGGGGCACCACGTTTCG	120
H	TCAAGGGGCGCGACGTGATTGTCTTCCTGCACATCCAGAAGACCGGGGGCACCACGTTTCG	120
D	TCAAGGGGCGCGACGTGATTGTCTTCCTGCACATCCAGAAGACCGGGGGCACCACGTTTCG	120

XM_018056433.1	GCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCGTGCAGCTGCAAAGCCGGCCAGA	180
H	GCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCGTGCAGCTGCAAAGCCGGCCAGA	180
D	GCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCGTGCAGCTGCAAAGCCGGCCAGA	180

XM_018056433.1	AGAAGTGCACCTGCCACCGCCCGGCAAGAAAGAGACGTGGCTCTTCTCCCGCTTCTCCA	240
H	AGAAGTGCACCTGCCACCGCCCGGCAAGAAAGAGACGTGGCTCTTCTCCCGCTTCTCCA	240
D	AGAAGTGCACCTGCCACCGCCCGGCAAGAAAGAGACGTGGCTCTTCTCCCGCTTCTCCA	240

XM_018056433.1	CCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACGGAGCTCACCAACTGTGTGCCGGCCA	300
H	CCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACGGAGCTCACCAACTGTGTGCCGGCCA	300
D	CCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACGGAGCTCACCAACTGTGTGCCGGCCA	300

XM_018056433.1	TCATGGAGAAGAAAGACTGTCCCCGCAACCACAGCCACACCAGGAATTTCTATTACATCA	360
H	TCATGGAGAAGAAAGACTGTCCCCGCAACCACAGCCACACCAGGAATTTCTATTACATCA	360
D	TCATGGAGAAGAAAGACTGTCCCCGCAACCACAGCCACACCAGGAATTTCTATTACATCA	360

XM_018056433.1	CCATGTTGCGGGATCCAGTGTCCCGATACCTGAGCGAGTGGAACACGTCCAGAGAGGGG	420
H	CCATGTTGCGGGATCCAGTGTCCCGATACCTGAGCGAGTGGAACACGTCCAGAGAGGGG	420
D	CCATGTTGCGGGATCCAGTGTCCCGATACCTGAGCGAGTGGAACACGTCCAGAGAGGGG	420

XM_018056433.1	CCACGTGGAAAACCTCCCTCCACATGTGCGACGGGAGGAGCCCCACCCAGACGAGCTGC	480
H	CCACGTGGAAAACCTCCCTCCACATGTGCGACGGGAGGAGCCCCACCCAGACGAGCTGC	480
D	CCACGTGGAAAACCTCCCTCCACATGTGCGACGGGAGGAGCCCCACCCAGACGAGCTGC	480

XM_018056433.1	CTACCTGCTACCCAGGGGATGACTGGTCT	509
H	CTACCTGCTACCCAGGGGATGACTGGTCT	509
D	CTACCTGCTACCCAGGGGATGACTGGTCT	509

Figure S4. *HS6ST3* gene (509-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, Table 018056433. 11.

XM_018040226.1	TCGTTGGCGGGAGATGTCGAACCCCGGGACGCGGAGGAACGGCTCCAGCATCAAGATCCG	60
H	TCGTTGGCGGGAGATGTCGAACCCCGGGACGCGGAGGAACGGCTCCAGCATCAAGATCCG	60
D	TCGTTGGCGGGAGATGTCGAACCCCGGGACGCGGAGGAACGGCTCCAGCATCAAGATCCG	60

XM_018040226.1	TCTGACAGTATTATGTGCCAAGAACCCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCC	120
H	TCTGACAGTATTATGTGCCAAGAACCCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCC	120
D	TCTGACAGTATTATGTGCCAAGAACCCTTGCAAAGAAAGACTTCTTCAGGCTCCCTGACCC	120

XM_018040226.1	TTTGTCAAAGATTGTTGTGGACGGATCTGGGCAGTGCCACTCAACGGACACTGTGAAGAG	180
H	TTTGTCAAAGATTGTTGTGGACGGATCTGGGCAGTGCCACTCAACGGACACTGTGAAGAG	180
D	TTTGTCAAAGATTGTTGTGGACGGATCTGGGCAGTGCCACTCAACGGACACTGTGAAGAG	180

XM_018040226.1	CACATTGGACCCAAAGTGGAAACCAGCACTACGATCTATATGTTGAAAAACGGATTCTAT	240
H	CACATTGGACCCAAAGTGGAAACCAGCACTACGATCTATATGTTGAAAAACGGATTCTAT	240
D	CACATTGGACCCAAAGTGGAAACCAGCACTACGATCTATATGTTGAAAAACGGATTCTAT	240

XM_018040226.1	AACCATCAGCGTGTGGAACCACAAGAAGGTTACAAGAAGCAGGGAGCCGGCTTCCTGGG	300
H	AACCATCAGCGTGTGGAACCACAAGAAGGTTACAAGAAGCAGGGAGCCGGCTTCCTGGG	300
D	AACCATCAGCGTGTGGAACCACAAGAAGGTTACAAGAAGCAGGGAGCCGGCTTCCTGGG	300

XM_018040226.1	GTGTGTGCGGCTGCTCTCCAATGCCGTGAGCAGGTTAAAAGACACTGGCTACCAGCGTTT	360
H	GTGTGTGCGGCTGCTCTCCAATGCCGTGAGCAGGTTAAAAGACACTGGCTACCAGCGTTT	360
D	GTGTGTGCGGCTGCTCTCCAATGCCGTGAGCAGGTTAAAAGACACTGGCTACCAGCGTTT	360

XM_018040226.1	GGATCTGTGCAAACTAAACCCCTCAGATACTGATGCAGTTTCGTGGCCAAATAGTGGTCAG	420
H	GGATCTGTGCAAACTAAACCCCTCAGATACTGATGCAGTTTCGTGGCCAAATAGTGGTCAG	420
D	GGATCTGTGCAAACTAAACCCCTCAGATACTGATGCAGTTTCGTGGCCAAATAGTGGTCAG	420

XM_018040226.1	TCTACAGACACGAGACAGGCCCGGCACCGCGGCTCTGTGGTGGACTGCAGGGGCCTGCT	480
H	TCTACAGACACGAGACAGGCCCGGCACCGCGGCTCTGTGGTGGACTGCAGGGGCCTGCT	480
D	TCTACAGACACGAGACAGGCCCGGCACCGCGGCTCTGTGGTGGACTGCAGGGGCCTGCT	480

XM_018040226.1	GGAGAGCGACGGAACCGTGTATGAAGACTCCGGGCCTGGAAGGCCCTCAGCTGCTTCAT	540
H	GGAGAGCGACGGAACCGTGTATGAAGACTCCGGGCCTGGAAGGCCCTCAGCTGCTTCAT	540
D	GGAGAGCGACGGAACCGTGTATGAAGACTCCGGGCCTGGAAGGCCCTCAGCTGCTTCAT	540

XM_018040226.1	GGAGGAGCCAGC	552
H	GGAGGAGCCAGC	552
D	GGAGGAGCCAGC	552

Figure S5. *SMURF1* gene (552-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018040226.1|.

XM_005697882.3	TGAGCAGGCCTTGAAGAGGAGGAACATCACCGATGTCTCACTTGACCCCTTCTGATCAGCA	60
H	TGAGCAGGCCTTGAAGAGGAGGAACATCACCGATGTCTCACTTGACCCCTTCTGATCAGCA	60
D	TGAGCAGGCCTTGAAGAGGAGGAACATCACCGATGTCTCACTTGACCCCTTCTGATCAGCA	60

XM_005697882.3	GACCAAAGGGGTGAGCCTCACCATGCAAGAAATAATCAGTGGTGTCAATGCCTCAGATCC	120
H	GACCAAAGGGGTGAGCCTCACCTTGCAAGAAATAATCAGTGGTGTCAATGCCTCAGATCC	120
D	GACCAAAGGGGTGAGCCTCACCATGCAAGAAATAATCAGTGGTGTCAATGCCTCAGATCC	120

XM_005697882.3	AGAACTATGTTTCCAGGCCACCCAGCAGCCAGGAAATGCTGTCCCGGGAGAAGAACC	180
H	AGAACTATGTTTCCAGGCCACCCAGCAGCCAGGAAATGCTGTCCCGGGAGAAGAACC	180
D	AGAACTATGTTTCCAGGCCACCCAGCAGCCAGGAAATGCTGTCCCGGGAGAAGAACC	180

XM_005697882.3	TCCTCTGAAGCTGATTGTGGACGCGGGACTCATCCCCAGGCTGGTGGAGCTCCTGAAGTC	240
H	TCCTCTGAAGCTGATTGTGGATGCGGGACTCATCCCCAGGCTGGTGGAGCTCCTGAAGTC	240
D	TCCTCTGAAGCTGATTGTGGACGCGGGACTCATCCCCAGGCTGGTGGAGCTCCTGAAGTC	240

XM_005697882.3	GTCTTTTACCCCCCGCTTGCAGTTCGAGGCAGCCTGGGCTCTGACCAACATTGCTTCAGG	300
H	GTCTTTTACCCCCCGCTTGCAGTTCGAGGCAGCCTGGGCTCTGACCAACATTGCTTCAGG	300
D	GTCTTTTACCCCCCGCTTGCAGTTCGAGGCAGCCTGGGCTCTGACCAACATTGCTTCAGG	300

XM_005697882.3	GGCCTCGGAGCTGACTCGCGCCGTCGTGGACGGGGGTGCCATCCAGCCCCTGGTTGAGCT	360
H	GGCCTCGGAGCTGACTCGCGCCGTCGTGGACGGGGGTGCCATCCAGCCCCTGGTTGAGCT	360
D	GGCCTCAGAGCTGACTCGCGCCGTCGTGGACGGGGGTGCCATCCAGCCCCTGGTTGAGCT	360

XM_005697882.3	CCTGTCTTCCCTCACATGACTGTGTGTGAACAGGCCGTGTGGGCCCTCGGGAACATAGC	420
H	CCTGTCTTCCCTCACATGACTGTGTGTGAACAGGCCGTGTGGGCCCTCGGGAACATAGC	420
D	CCTGTCTTCCCTCACATGACTGTGTGTGAACAGGCCGTGTGGGCCCTCGGGAACATAGC	420

XM_005697882.3	AGGTGATGGACCAGAATTGAGAGACAATGTTATCGCAAGTGATGCCATTCCACATCTGCT	480
H	AGGTGATGGACCAGAATTGAGAGACAATGTTATCGCGAGTGATGCCATTCCACATCTGCT	480
D	AGGTGATGGACCAGAATTGAGAGACAATGTTATCGCAAGTGATGCCATTCCACATCTGCT	480

XM_005697882.3	GACCCCTGGTTTCGTCAAACATAACAGTCCCGTTTCTGCGCAACATCGCCTGGACCCCTGTC	540
H	GACCCCTGGTTTCGTCAAACATAACAGTCCCGTTTCTGCGCAACATCGCCTGGACCCCTGTC	540
D	GACCCCTGGTTTCGTCAAACATAACAGTCCCGTTTCTGCGCAACATCGCCTGGACCCCTGTC	540

XM_005697882.3	CAACCTGTGCCGGAACAAGAACCCTACCCCTCCGACCACGCAGTGAAGCAGATGTTGCC	600
H	CAACCTGTGCCGGAACAAGAACCCTACCCCTCCGACCACGCAGTGAAGCAGATGTTGCC	600
D	CAACCTGTGCCGGAACAAGAACCCTACCCCTCCGACCACGCAGTGAAGCAGATGTTGCC	600

XM_005697882.3	CGTCCTCTTCTACCTCCT 618	
H	CGTCCTCTTCTACCTCCT 618	
D	CGTCCTCTTCTACCTCCT 618	

Figure S6. *KPNA7* gene (618-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_005697882.3|.

XM_005682343.2	TACCTCCAGGTCCGGGATCGGATCCGAATCTCCAGGTGCGGCCGCCCTGCGGGAGGGA	60
H	TACCTCCAGGTCCGGGATCGGATCCGAATCTCCAGGTGCGGCCGCCCTGCGGGAGGGA	60
D	TACCTCCAGGTCCGGGATCGGATCCGAATCTCCAGGTGCGGCCGCCCTGCGGGAGGGA	60

XM_005682343.2	AGGGCCAGGCGGGGGGCGCACTAGGAGACGCACATCTGATCCTCGCGGGGCCGGTCTGT	120
H	AGGGCCAGGCGGGGGGCGCACTAGGAGACGCACATCTGATCCTCGCGGGGCCGGTCTGT	120
D	AGGGCCAGGCGGGGGGCGCACTAGGAGACGCACATCTGATCCTCGCGGGGCCGGTCTGT	120

XM_005682343.2	TCTAACGGCGGGTCCCTCCCCAGGGTCTGTCAACACTGGAAGAAGCTGGTGGACGACC	180
H	TCTAACGGCGGGTCCCTCCCCAGGGTCTGTCAACACTGGAAGAAGCTGGTGGACGACC	180
D	TCTAACGGCGGGTCCCTCCCCAGGGTCTGTCAACACTGGAAGAAGCTGGTGGACGACC	180

XM_005682343.2	GGTGGCTGTGGCGACACGTCGACCTGACGCTCTACACGTTGCTATCTACATGGCTGTTAT	240
H	GGTGGCTGTGGCGACACGTCGACCTGACGCTCTACACGTTGCTATCTACATGGCTGTTAT	240
D	GGTGGCTGTGGCGACACGTCGACCTGACGCTCTACACGTTGCTATCTACATGGCTGTTAT	240

XM_005682343.2	CACTGGACATTTTTTGTCTTTAAACCACGATGTGAGAAACCAACGTTTCTGTAAGATGCG	300
H	CACTGGACATTTTTTGTCTTTAAACCACGATGTGAGAAACCAACGTTTCTGTAAGATGCG	300
D	CACTGGACATTTTTTGTCTTTAAACCACGATGTGAGAAACCAACATTTCTGTAAGATGCG	300

XM_005682343.2	GCCCAAAGTCATGTGGCACTCCTCCGCCGTACATGGCATCCAGGCTCCATTCCCTGCG	360
H	GCCCAAAGTCATGTGGCACTCCTCCGCCGTACATGGCATCCAGGCTCCATTCCCTGCG	360
D	GCCCAAAGTCATGTGGCACTCCTCCGCCGTACATGGCATCCAGGCTCCATTCCCTGCG	360

XM_005682343.2	GATGGCGGGCTACCTGTTCTCAGGCTCCCAGGCTCCCCAGCTGTCCCTGCCCTGATGAG	420
H	GATGGCGGGCTACCTGTTCTCAGGCTCCCAGGCTCCCCAGCTGTCCCTGCCCTGATGAG	420
D	GATGGCGGGCTACCTGTTCTCAGGCTCCCAGGCTCCCCAGCTGTCCCTGCCCTGATGAG	420

XM_005682343.2	GGCCCTGGGTGAGAAAGTGCCCCAACCTCAAGCGCCTCTGCCTGCATGTGGCCAACTGAG	480
H	GGCCCTGGGTGAGAAAGTGCCCCAACCTCAAGCGCCTCTGCCTGCATGTGGCCAACTGAG	480
D	GGCCCTGGGTGAGAAAGTGCCCCAACCTCAAGCGCCTCTGCCTGCATGTGGCCAACTGAG	480

XM_005682343.2	CATGGTGCCCATCACCAGCCTGCCCTGCACCCTGAGGACCTGGAGCTGCATAGCTGTGA	540
H	CATGGTGCCCATCACCAGCCTGCCCTGCACCCTGAGGACCTGGAGCTGCATAGCTGTGA	540
D	CATGGTGCCCATCACCAGCCTGCCCTGCACCCTGAGGACCTGGAGCTGCATAGCTGTGA	540

XM_005682343.2	GATCTCCATGGCCTGGCTCCATAAAGAGCAGGACCCACAGTGCTGCCCTGCTCGAGTG	600
H	GATCTCCATGGCCTGGCTCCATAAAGAGCAGGACCCACAGTGCTGCCCTGCTCGAGTG	600
D	GATCTCCATGGCCTGGCTCCATAAAGAGCAGGACCCACGCTGCTGCCCTGCTCGAGTG	600

XM_005682343.2	CATCGTGCTGGACCGCTCCCCGCCTTCCGCGACGAGCACCTGCAGG	647
H	CATCGTGCTGGACCGCTCCCCGCCTTCCGCGACGAGCACCTGCAGG	647
D	CATCGTGCTGGACCGCTCCCCGCCTTCCGCGACGAGCACCTGCAGG	647

Figure S7. *FBXL12* gene (647-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_005682343.2|.

XM_018051006.1	GAGGAGAAGCTGCCGCCCGGCTGGGAGAAGCGTATGAGCCGCAGCTCAGGCCGGGTGTAC	60
H	GAGGAGAAGCTGCCGCCCGGCTGGGAGAAGCGTATGAGCCGCAGCTCAGGCCGGGTGTAC	60
D	GAGGAGAAGCTGCCGCCCGGCTGGGAGAAGCGTATGAGCCGCAGCTCAGGCCGGGTGTAC	60

XM_018051006.1	TACTTCAATCACATCACTAATGCCAGCCAGTGGGAGCGGCCAAGTGGCAACAGCAGTGGC	120
H	TACTTCAATCACATCACTAATGCCAGCCAGTGGGAGCGGCCAAGTGGCAACAGCAGTGGC	120
D	TACTTCAATCACATCACTAATGCCAGCCAGTGGGAGCGGCCAAGTGGCAACAGCAGTGGC	120

XM_018051006.1	AGCGGCCAAAAATGGACAAGGGGAGCCCAACCAGGGTCCGCTGCTCACACCTGCTGGTCAAG	180
H	AGCGGCCAAAAATGGACAAGGGGAGCCCAACCAGGGTCCGCTGCTCACACCTGCTGGTCAAG	180
D	AGCGGCCAAAAACGGACAAGGGGAGCCCAACCAGGGTCCGCTGCTCACACCTGCTGGTCAAG	180

XM_018051006.1	CACAGCCAGTCACGGCGACCCCTCATCCTGGCGGCAGGAGAAGATCACCCGAACCAAGGAG	240
H	CACAGCCAGTCACGGCGACCCCTCATCCTGGCGGCAGGAGAAGATCACCCGAACCAAGGAG	240
D	CACAGCCAGTCACGGCGGCCCTCATCCTGGCGGCAGGAGAAGATCACCCGAACCAAGGAA	240

XM_018051006.1	GAGGCCCTGGAGCTGATCAATGGCTACATCCAGAAGATTAAAGTCTGGAGAGGAGGACTTT	300
H	GAGGCCCTGGAGCTGATCAATGGCTACATCCAGAAGATTAAAGTCTGGAGAGGAGGACTTT	300
D	GAGGCCCTGGAGCTGATCAATGGCTACATCCAGAAGATTAAAGTCTGGAGAGGAGGACTTT	300

XM_018051006.1	GAATCTCTGGCCTCACAGTTCAGCGACTGCAGCTCCGCCAAGGCCAGGGGAGACCTGGGT	360
H	GAATCTCTGGCCTCACAGTTCAGCGACTGCAGCTCCGCCAAGGCCAGGGGAGACCTGGGT	360
D	GAATCTCTGGCCTCACAGTTCAGCGACTGCAGCTCCGCCAAGGCCAGGGGAGACCTGGGT	360

XM_018051006.1	GCCTTCAGCAGAGGTGAGATGCAGAAGCCATTTGAAGACGCCTCCTTCGCGCTGCGGACA	420
H	GCCTTCAGCAGAGGTGAGATGCAGAAGCCATTTGAAGACGCCTCCTTCGCGCTGCGGACA	420
D	GCCTTCAGCAGAGGTGAGATGCAGAAGCCATTTGAAGACGCCTCCTTCGCGCTGCGGACA	420

XM_018051006.1	GGGGAGATGAGCGGGCCCGTGTTCACAGATTGCGGCATCCACATCATCCTTCGCACGGAG	480
H	GGGGAGATGAGCGGGCCCGTGTTCACAGATTGCGGCATCCACATCATCCTTCGCACGGAG	480
D	GGGGAGATGAGCGGGCCCGTGTTCACAGATTGCGGCATCCACATCATCCTTCGCACGGAG	480

XM_018051006.1	TGAGGGGTGTGGATGGCCAGGCCTGGCCCCCTGGGGGAGACGGGTGGGACGGGTGGCT	540
H	TGAGGGGTGTGGATGGCCAGGCCTGGCCCCCTGGGGGAGACGGGTGGGACGGGTGGCT	540
D	TGAGGGGTGTGGATGGCCAGGCCTGGCCCCCTGGGGGAGACGGGTGGGACGGGTGGCT	540

XM_018051006.1	GGGCCCACAGACTCCGCTCCCTGCTGCCGGCCAACCAGTGGGGACCCCTCCCTTCTCCTG	600
H	GGGCCCACAGACTCCGCTCCCTGCTGCCGGCCAACCAGTGGGGACCCCTCCCTTCTCCTG	600
D	GGGCCCACAGACTCCGCTCCCTGCTGCCGGCCAACCAGTGGGGACCCCTCCCTTCTCCTG	600

XM_018051006.1	TCACACAGTAT	611
H	TCACACAGTAT	611
D	TCACACAGTAT	611

Figure S8. *PIN1* gene (611-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018051006.1|.

XM_018051062.1	TGAGCGAGGTCATCGTCCAGCATTACAACCTACACCGGCAAGCTCCGCGGTGCGCGCTACC	60
H	TGAGCGAGGTCATCGTCCAGCATTACAACCTACACCGGCAAGCTCCGCGGTGCGCGCTACC	60
D	TGAGCGAGGTCATCGTCCAGCATTACAACCTACACCGGCAAGCTCCGCGGTGCGCGCTACC	60

XM_018051062.1	AGCCTGGCGCGGGACTGCGTGCAGATGCCGTGCTGCTGGCCGTGTGCGCGCTCATCG	120
H	AGCCTGGCGCGGGACTGCGTGCAGATGCCGTGCTGCTGGCCGTGTGCGCGCTCATCG	120
D	AGCCTGGCGCGGGACTGCGTGCAGATGCCGTGCTGCTGGCCGTGTGCGCGCTCATCG	120

XM_018051062.1	TGTTGGAGAACTTAGCCGTGCTGATCGTGCTCGGACGCCACCCGCGCTTCCATGCGCCCA	180
H	TGTTGGAGAACTTAGCCGTGCTGATCGTGCTCGGACGCCACCCGCGCTTCCATGCGCCCA	180
D	TGTTGGAGAACTTAGCCGTGCTGATCGTGCTCGGACGCCACCCGCGCTTCCATGCGCCCA	180

XM_018051062.1	TGTTCTGCTTCTGGGCAGCCTCACGCTGTCCGACCTGCTGGCCGGCGCCGCTATGCCG	240
H	TGTTCTGCTTCTGGGCAGCCTCACGCTGTCCGACCTGCTGGCCGGCGCCGCTATGCCG	240
D	TGTTCTGCTTCTGGGAAGCCTCACGCTGTCCGACCTGCTGGCCGGCGCCGCTATGCCG	240

XM_018051062.1	CCAACATCCTGCTGTCCGGGCGCTCACGCTACGCTCTGTGCCCCGCGCTCTGGTTGCCC	300
H	CCAACATCCTGCTGTCCGGGCGCTCACGCTACGCTCTGTGCCCCGCGCTCTGGTTGCCC	300
D	CCAACATCCTGCTGTCCGGGCGCTCACGCTACGCTCTGTGCCCCGCGCTCTGGTTGCCC	300

XM_018051062.1	GTGAAGGCGGCGTCTTCGIGGCGCTCTCCGCGTCCGTGCTGAGCCTTTTGGCCATTGCAC	360
H	GTGAAGGCGGCGTCTTCGIGGCGCTCTCCGCGTCCGTGCTGAGCCTTTTGGCCATTGCAC	360
D	GTGAAGGCGGCGTCTTCGIGGCGCTCTCCGCGTCCGTGCTGAGCCTTTTGGCCATTGCAC	360

XM_018051062.1	TCGAGCGCCTCCTCACCATGGAGCG	385
H	TCGAGCGCCTCCTCACCATGGAGCG	385
D	TCGAGCGCCTCCTCACCATGGAGCG	385

Figure S9. *S1PR5* gene (385-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018051062.1|.

XM_005682354.3	GCCAGTCTTAGCCAAGCGCCTCCGCGCCAGCTAGTCCGCCCCGCTCCGCCTGCGATGGC	60
H	GCCAGTCTTAGCCAAGCGCCTCCGCGCCAGCTAGTCCGCCCCGCTCCGCCTCCGATGGC	60
D	GCCAGTCTTAGCCAAGCGCCTCCGCGCCAGCTAGTCCGCCCCGCTCCGCCTGCGATGGC	60

XM_005682354.3	TCCCGGCGCCGCCCTGCCGCGCTGCTTGCCTCCTGGTCCTGCTCGGGACTCTGCTGCC	120
H	TCCCGGCGCCGCCCTGCCGCGCTGCTTGCCTCCTGGTCCTGCTCGGGACTCTGCTCCC	120
D	TCCCGGCGCCGCCCTGCCGCGCTGCTTGCCTCCTGGTCCTGCTCGGGACTCTGCTGCC	120

XM_005682354.3	AGGGTCTGGAGGTGCCGAAATATCAATAGATCCTTCAAAAGCCATCATACCCCGTGGAGG	180
H	AGGGTCTGGAGGTGCCGAAATATCAATAGATCCTTCAAAAGCCATCATACCCCGTGGAGG	180
D	AGGGTCTGGAGGTGCCGAAATATCAATAGATCCTTCAAAAGCCATCATACCCCGTGGAGG	180

XM_005682354.3	CTCCCTGAGAGTGAACTGCAGTATCTCCTGTGACCGAAAGACAACGTTTGGCCTAGAGAC	240
H	CTCCCTGAGAGTGAACTGCAGTATCTCCTGTGACCGAAAGACAACATTTGGCCTAGAGAC	240
D	CTCCCTGAGAGTGAACTGCAGTATCTCCTGTGACCGAAAGACAACGTTTGGCCTAGAGAC	240

XM_005682354.3	TGTATTAAACAAGGAGGAAGTGAGCCGTGGGCCCAACTGGAAGGTTTTTGAAGTGAAGTGA	300
H	TGTATTAAACAAGGAGGAAGTGAGCCGTGGGCCCAACTGGAAGGTTTTTGAAGTGAAGTGA	300
D	TGTATTAAACAAGGAGGAAGTGAGCCGTGGGCCCAACTGGAAGGTTTTTGAAGTGAAGTGA	300

XM_005682354.3	TGTGCAAGAAGAAATCAACCCGTTGTGCTACTCAAAGTGTACGCGGGAACAGATTGTAGC	360
H	TGTGCAAGAAGAAATCAACCCGTTGTGCTACTCAAAGTGTACGCGGGAACAGATTGTAGC	360
D	TGTGCAAGAAGAAATCAACCCGTTGTGCTACTCAAAGTGTACGCGGGAACAGATTGTAGC	360

XM_005682354.3	TTCGATGAACCTCACCATATACTGGTTCCCGGAGCGCGTGGAGCTGGCTCCCCTGCCCT	420
H	TTCGATGAACCTCACCATATACTGGTTCCCGGAGCGCGTGGAGCTGGCTCCCCTGCCCT	420
D	TTCGATGAACCTCACCATATACTGGTTCCCGGAGCGCGTGGAGCTGGCTCCCCTGCCCT	420

XM_005682354.3	CTGGCAGCCTGTGGGTGAAGAACTCAACCTGAGCTGCCAGGTGTCCGGT	469
H	CTGGCAGCCTGTGGGTGAAGAACTCAACCTGAGCTGCCAGGTGTCCGGT	469
D	CTGGCAGCCTGTGGGTGAAGAACTCAACCTGAGCTGCCAGGTGTCCGGT	469

Figure S10. *ICAM1* gene (469-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_005682354.3|.

XM_005696851.3	TCCAAGGAGCTCCAGAAGCAGTCCTGGGCACCGAGCTCAGCGCGGGAGCAGAGAGTGGCG	60
H	TCCAAGGAGCTCCAGAAGCAGTCCTGGGCACCGAGCTCAGCGCGGGAGCAGAGAGTGGCG	60
D	TCCAAGGAGCTCCAGAAGCAGTCCTGGGCACCGAGCTCAGCGCGGGAGCAGAGAGTGGCG	60

XM_005696851.3	GGGAGAGGCCGGCTCCCACCACGCCCTGGAGACCCCGCAGGTCCAAGCGCTGCTCCTGCT	120
H	GGGAGAGGCCGGCTCCCACCACGCCCTGGAGACCCCGCAGGTCCAAGCGCTGCTCCTGCT	120
D	GGGAGAGGCCGGTCCCACCACGCCCTGGAGACCCCGCAGGTCCAAGCGCTGCTCCTGCT	120

XM_005696851.3	CGTCCCTGATGGATAAAGAGTGTGTCTACTTCTGCCACCTGGACATCATCTGGGTCAACA	180
H	CGTCCCTGATGGATAAAGAGTGTGTCTACTTCTGCCACCTGGACATCATCTGGGTCAACA	180
D	CGTCCCTGATGGATAAAGAGTGTGTCTACTTCTGCCACCTGGACATCATCTGGGTCAACA	180

XM_005696851.3	CTCCAGAGCACATTGTTCCATATGGACTCGGAAGCCCTTCTAGGTCCAAGCGCTCCTTAA	240
H	CTCCAGAGCACATTGTTCCATATGGACTCGGAAGCCCTTCTAGGTCCAAGCGCTCCTTAA	240
D	CTCCAGAGCACATTGTTCCATATGGACTCGGAAGCCCTTCTAGGTCCAAGCGCTCCTTAA	240

XM_005696851.3	AGGACTTCTTTCTACAAAGGCGACAGTCCACAGGAAGAGATGCCAGTGTACTAGCCAGA	300
H	AGGACTTCTTTCTACAAAGGCGACAGTCCACAGGAAGAGATGCCAGTGTACTAGCCAGA	300
D	AGGACTTCTTTCTACAAAGGCGACAGTCCACAGGAAGAGATGCCAGTGTACTAGCCAGA	300

XM_005696851.3	CAGACAAGAAATGCCAGAACTTTTGCCAAGCAGGAAAAGAGCTCAAGGACCAAGACTCCA	360
H	CAGACAAGAAATGCCAGAACTTTTGCCAAGCAGGAAAAGAGCTCAAGGACCAAGACTCCA	360
D	CAGACAAGAAATGCCAGAACTTTTGCCAAGCAGGAAAAGAGCTCAAGGACCAAGACTCCA	360

XM_005696851.3	TGGAG	365
H	TGGAG	365
D	TGGAG	365

Figure S11. *EDN1* gene (365-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_005696851.3|.

XM_018048955.1	GCGCGCCGGCTTCTACCGTCTGGAGCTGAACAAGACGCTGTGGGAGGTGCCGCAGCGGCT	60
H	GCGCGCCGGCTTCTACCGTCTGGAGCTGAACAAGACGCTGTGGGAGGTGCCGCAGCGGCT	60
D	GCGCGCCGGCTTCTACCGTCTGGAGCTGAACAAGACGCTGTGGGAGGTGCCGCAGCGGCT	60

XM_018048955.1	GCAGGGGCTGCGCCCGGTGGGCTCGGGCGCCTACGGCTCAGTCTGCTCGGCCTACGACAC	120
H	GCAGGGGCTGCGCCCGGTGGGCTCGGGCGCCTACGGCTCAGTCTGCTCGGCCTACGACAC	120
D	GCAGGGGCTGCGCCCGGTGGGCTCGGGCGCCTACGGCTCAGTCTGCTCGGCCTACGACAC	120

XM_018048955.1	ACGGCTGCGCCAGAGGGTGGCGGTGAAGAAGCTGTGCGGGCCCTTCCAGTCTCTGATCCA	180
H	ACGGCTGCGCCAGAGGGTGGCGGTGAAGAAGCTGTGCGGGCCCTTCCAGTCTCTGATCCA	180
D	ACGGCTGCGCCAGAGGGTGGCGGTGAAGAAGCTGTGCGGGCCCTTCCAGTCTCTGATCCA	180

XM_018048955.1	CGCGCGGAGGACCTACCGGGAGCTGCGGCTGCTCAAACACCTGAAGCACGAGAACGTCAT	240
H	CGCGCGGAGGACCTACCGGGAGCTGCGGCTGCTCAAACACCTGAAGCACGAGAACGTCAT	240
D	CGCGCGGAGGACCTACCGGGAGCTGCGGCTGCTCAAACACCTGAAGCACGAGAACGTCAT	240

XM_018048955.1	CGGGCTGCTGGACGTGTTACGCCTGCCACCTCCCTCGAGGATTTACGCGAAGTGTACCT	300
H	CGGGCTGCTGGACGTGTTACGCCTGCCACCTCCCTCGAGGATTTACGCGAAGTGTACCT	300
D	CGGGCTGCTGGACGTGTTACGCCTGCCACCTCCCTCGAGGATTTACGCGAAGTGTACCT	300

XM_018048955.1	GGTGACCACGCTGATGGGCGCCGACCTGAACAACATCGTCAAGTGCCAGGCGCTGAGTGA	360
H	GGTGACCACGCTGATGGGCGCCGACCTGAACAACATCGTCAAGTGCCAGGCGCTGAGTGA	360
D	GGTGACCACGCTGATGGGCGCCGACCTGAACAACATCGTCAAGTGCCAGGCGCTGAGTGA	360

XM_018048955.1	CGAGCACGTGCAGTTCCTCGTGTACCAGCTGCTGCGCG	398
H	CGAGCACGTGCAGTTCCTCGTGTACCAGCTGCTGCGCG	398
D	CGAGCACGTGCAGTTCCTCGTGTACCAGCTGCTGCGCG	398

Figure S12. *MAPK11* gene (398-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018048955.1|.

XM_018050168.1	CGTCAGAGCCAGTGTCTGAGAATCTGGTTCTCTGCCACCCGCGAGCCCTGCATCAGCCT	60
H	CGTCAGAGCCAGTGTCTGAGAATCTGGTTCTCTGCCACCCGCGAGCCCTGCATCAGCCT	60
D	CGTCAGAGCCAGTGTCTGAGAATCTGGTTCTCTGCCACCCGCGAGCCCTGCATCAGCCT	60

XM_018050168.1	GCCACTTTCCTGCTGAGGCCATGGGCCCACGGACCCTGCTGATCCTGCTGGTGGCCACAG	120
H	GCTACTTTCCTGCTGAGGCCATGGGCCCACGGACCCTGCTGATCCTGCTGGTGGCCACAG	120
D	GCCACTTTCCTGCTGAGGCCATGGGCCCACGGACCCTGCTGATCCTGCTGGTGGCCACAG	120
	** *****	
XM_018050168.1	CTTGGCATGGTCAGGGGGTCCCGGTGATAGAGCCCAGTGGCCCTGAGCTGGTGGTGGAGC	180
H	CTTGGCATGGTCAGGGGGTCCCGGTGATAGAGCCCAGTGGCCCTGAGCTGGTGGTGGAGC	180
D	CTTGGCATGGTCAGGGGGTCCCGGTGATAGAGCCCAGTGGCCCTGAGCTGGTGGTGGAGC	180

XM_018050168.1	CAGGCACAGCGGTGACCTTGGCATGTATGAGCAATGGCAGCGTGAAGTGGGATGGCCCCA	240
H	CAGGCACAGCGGTGACCTTGGCATGTATGAGCAATGGCAGCGTGAAGTGGGATGGCCCCA	240
D	CAGGCACAGCGGTGACCTTGGCATGTATGAGCAATGGCAGCGTGAAGTGGGATGGCCCCA	240

XM_018050168.1	TTTCCCCCTACTGGACTCTGGACTCTGAGGCCCCCAGAAGCATCCTCAGCACGAACAATG	300
H	TTTCCCCCTACTGGACTCTGGACTCTGAGGCCCCCAGAAGCATCCTCAGCACGAACAATG	300
D	TTTCCCCCTACTGGACTCTGGACTCTGAGGCCCCCAGAAGCATCCTCAGCACGAACAATG	300

XM_018050168.1	CCACCTTCCTGCACACGGGAACGTACCGCTGCACTGAGCCTGGAG	345
H	CCACCTTCCTGCACACGGGAACGTACCGCTGCACTGAGCCTGGAG	345
D	CCACCTTCCTGCACACGGGAACGTACCGCTGCACTGAGCCTGGAG	345

Figure S13. *CSFIR* gene (345-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018050168.1|.

XM_013972914.2	GACTGTTGAGTCGTCCTCTCAAAGGAGAAGACAGTTTTCTGCTCAGCCATGACGGCGGGT	60
H	GACTGTTGAGTCGTCCTCTCAAAGGAGAAGACAGTTTTCTGCTCAGCCATGACGGCGGGT	60
D	GACTGTTGAGTCGTCCTCTCAAAGGAGAAGACAGTTTTCTGCTCAGCCATGATGGCGGGT	60

XM_013972914.2	CTGTGATATGTTCCACCCTGGACTGTAAGCCATGACCTAGTCCACCCTCGGGCAGCAGCA	120
H	CTGTGATATGTTCCACCCTGGACTGTAAGCCATGACCTAGTCCACCCTCGGGCAGCAGCA	120
D	CTGTGATATGTTCCACCCTGGACTCTAAGCCATGACCTAGTCCACCCTCGGGCAGCAGCA	120

XM_013972914.2	GCGGCAGGTGTGACCACGACGGAACCTGACTTGGGAGAGCAGCTACCCCGAGGGTTGATGG	180
H	GCGGCAGGTGTGACCACGACGGAACCTGACTTGGGAGAGCAGCTACCCCGAGGGCTGATGG	180
D	GCGGCAGGTGTGACCACGACGGAACCTGACTTGGGAGAGCAGCTACCCCGAGGGTTGATGG	180

XM_013972914.2	CTGGAATGTCTCGGCTACCGCCAGCATGTACTGGTGTGTGGGGCCAGCAGGGTCAGCTG	240
H	CTGGAATGTCTCGGCTACCGCCAGCATGTACTGGTGTGTGGGGCCAGCAGGGTCAGCTG	240
D	CTGGAATGTCTCGGCTACCGCCAGCATGTACTGGTGTGTGGGGCCAGCAGGGTCAGCTG	240

XM_013972914.2	TGTGTCCAGGACGCGCCATGGAGACCCAGGAGAACGGTGCTGGGGACATGGGCAGCAAAAC	300
H	TGTGTCCAGGACGCGCCATGGAGACCCAGGAGAACGGTGCTGGGGACATGGGCAGCAAAAC	300
D	TGTGTCCAGGACGCGCCATGGAGACCCAGGAGAACGGTGCTGGGGACATGGGCAGCAAAAC	300

XM_013972914.2	TCTCCATGCCAGGTGGTGAGCCCATAGTGCAGAGCCTCAGGACGGAAGGCATTTCATGCTG	360
H	TCTCCATGCCAGGTGGTGAGCCCATAGTGCAGAGCCTCAGGACGGAAGGCATTTCATGCTG	360
D	TCTCCATGCCAGGTGGTGAGCCCATAGTGCAGAGCCTCAGGACGGAAGGCATTTCATGCTG	360

XM_013972914.2	CATACAGGCGAGGAGACGTCAGCAGAGCCAGCATCTGCTCCGAGAAGCTTGTGACGAGA	420
H	CATACAGGCGAGGAGACGTCAGCAGAGCCAGCATCTGCTCCGAGAAGCTTGTGACGAGA	420
D	CATACAGGCAAGGAGACGTCAGCAGAGCCAGCATCTGCTCCGAGAAGCTTGTGACGAGA	420

XM_013972914.2	GCACATCCCAGCTGGAAAAGAGCCAGCTCCTGAGTATCTCTGCAGCCCATGGTGACCTGG	480
H	GCACATCCCAGCTGGAAAAGAGCCAGCTCCTGAGTATCTCTGCAGCCCATGGTGACCTGG	480
D	GCACATCCCAGCTGGAAAAGAGCCAGCTCCTGAGTATCTCTGCAGCCCATGGTGACCTGG	480

XM_013972914.2	AGACCGTCCGGTATCTTCTCACTGAGAGGCTGGTGGAGCTACGGACGGAG	530
H	AGACCGTCCGGTATCTTCTCACTGAGAGGCTGGTGGAGCTACGGACGGAG	530
D	AGACCGTCCGGTATCTTCTCACTGAGAGGCTGGTGGAGCTACGGACGGAG	530

Figure S14. *LRRK1* gene (530-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_013972914.2|.

XM_018060122.1	TAGCAGAGGAGAACCTGACACAGTGGTGAGCACTGTCAATGCTAGATGTGCCCTGAAGGG	60
H	TAGCAGAGGAGAACCTGACACAGTGGTGAGCACTGTCAATGCTAGATGTGCCCTGAAGGG	60
D	TAGCAGAGGAGAACCTGACACAGTGGTGAGCACTGTCAATGCTAGATGTGCCCTGAAGGG	60

XM_018060122.1	TCTCCAAATGAGATTTCCAGCAAAAATCGTGTGGCTTCTGCTGTGGACCGTTTGTGTCTG	120
H	TCTCCAAATGAGATTTCCAGCAAAAATCGTGTGGCTTCTGCTGTGGACCGTTTGTGTCTG	120
D	TCTCCAAATGAGATTTCCAGCAAAAATCGTGTGGCTTCTGCTGTGGACCGTTTGTGTCTG	120

XM_018060122.1	CAGAAGACTGTAAAGAACCCCTCCAGAAAAGAAACAGAAATCCTGTCAGGTTCTTGGA	180
H	CAGAAGACTGTAAAGAACCCCTCCAGAAAAGAAACAGAAATCCTGTCAGGTTCTTGGA	180
D	CAGAAGACTGTAAAGAACCCCTCCAGAAAAGAAACAGAAATCCTGTCAGGTTCTTGGA	180

XM_018060122.1	CTGAACAAACATATCGAGAGGGCACTCAGGCTACATATAAATGCAGCCCTGGATACAGAA	240
H	CTGAACAAACATATCGAGAGGGCACTCAGGCTACATATAAATGCAGCCCTGGATACAGAA	240
D	CTGAACAAACATATCGAGAGGGCACTCAGGCTACATATAAATGCAGCCCTGGATACAGAA	240

XM_018060122.1	CTCTGGGGAGTATTGTAATGGTGTGCAAGGGTGGAAAATGGGTGTCTCTTTATCCATCGA	300
H	CTCTGGGGAGTATTGTAATGGTGTGCAAGGGTGGAAAATGGGTGTCTCTTTATCCATCGA	300
D	CTCTGGGGAGTATTGTAATGGTGTGCAAGGGTGGAAAATGGGTGTCTCTTTATCCATCGA	300

XM_018060122.1	GGATATGTCGGAAGGACCCCTGTGCACACCCTGGAGACACTCCATTGGTTCTTTCCATC	360
H	GGATATGTCGGAAGGACCCCTGTGCACACCCTGGAGACACTCCATTGGTTCTTTCCATC	360
D	GGATATGTCGGAAGGACCCCTGTGCACACCCTGGAGACACTCCATTGGTTCTTTCCATC	360

XM_018060122.1	TTGCAGAAGGAACTCAGTTTGAATATGGTGCAAAAGTTGTTTATACGTGTGATGAGGGGT	420
H	TTGCAGAAGGAACTCAGTTTGAATATGGTGCAAAAGTTGTTTATACGTGTGATGAGGGGT	420
D	TTGCAGAAGGAACTCAGTTTGAATATGGTGCAAAAGTTGTTTATACGTGTGATGAGGGGT	420

XM_018060122.1	ATCAGATGCTGGGTGAGATGAATTTCCGTGAATGTGACACAAATGGATGGACCAATGATA	480
H	ATCAGATGCTGGGTGAGATGAATTTCCGTGAATGTGACACAAATGGATGGACCAATGATA	480
D	ATCAGATGCTGGGTGAGATGAATTTCCGTGAATGTGACACAAATGGATGGACCAATGATA	480

XM_018060122.1	TTCCCATATGTGAAGTTGTTAAGTGT	506
H	TTCCCATATGTGAAGTTGTTAAGTGT	506
D	TTCCCATATGTGAAGTTGTTAAGTGT	506

Figure S15. *CFH* gene (506-bp) demonstrative DNA sequence alignment between healthy and diarrheal Baladi kids, together with the reference sequence found in GenBank gb|XM_018060122.1|.