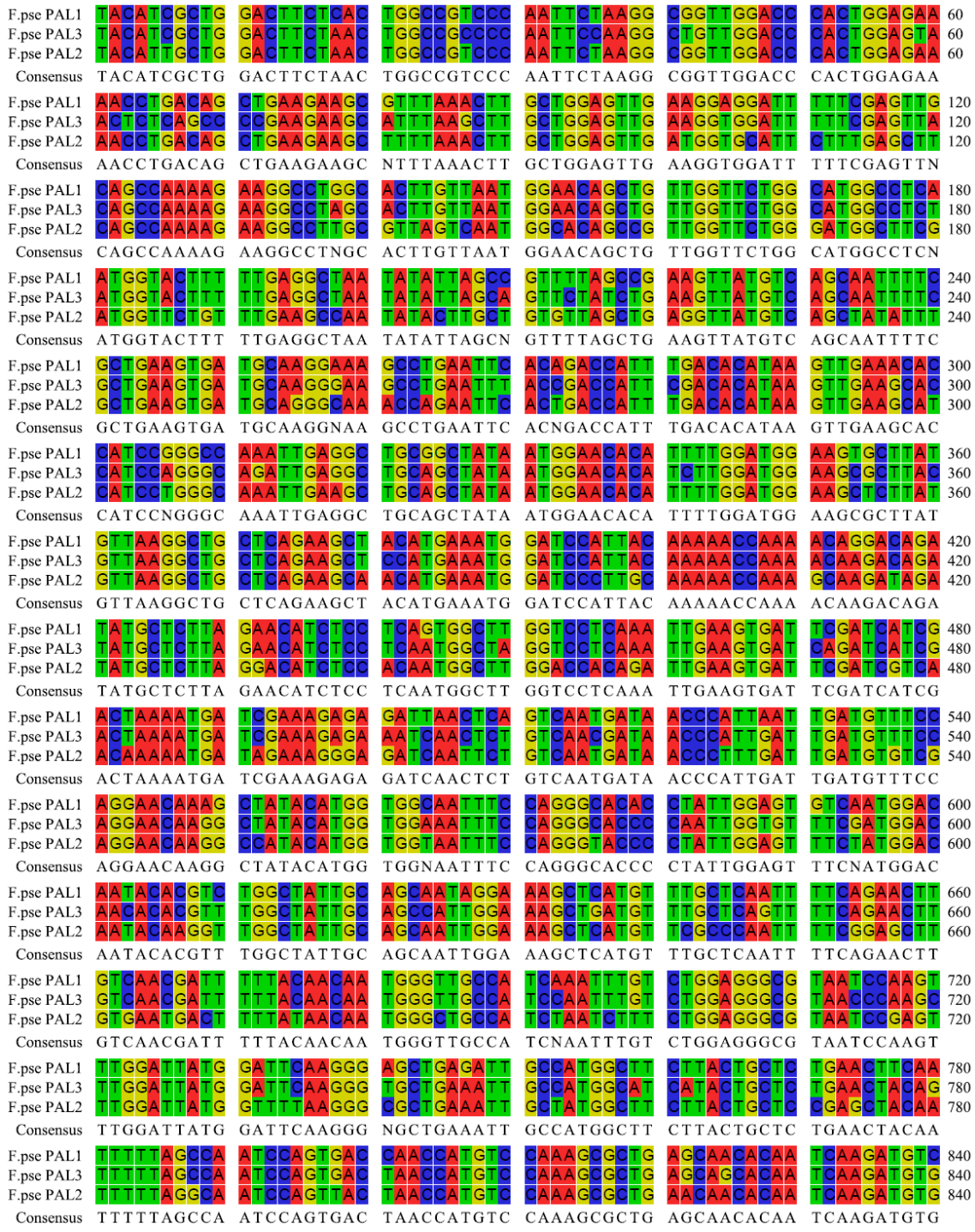

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F.pse PAL2 TACATTGCTG GACTTCTAAC TGGCCGTCCC AATTCTAAGG CGGTTGGACC CACTGGAGAA 60
Consensus TACATCGCTG GACTTCTAAC TGGCCGTCCC AATTCTAAGG CGGTTGGACC CACTGGAGAA
F.pse PAL1 AACCTGACAG CTGAAGAAGC GTTTAAACTT GCTGGAGTTG AAGGAGGATT TTTCGAGTTG 120
F.pse PAL3 ACTCTCAGCC CCGAAGAAGC ATTTAAGCTT GCTGGAGTTG AAGGTGGATT TTTCGAGTTA 120
F.pse PAL2 AACCTGACAG CTGAAGAAGC TTTTAAACTT GCTGGAGTTG ATGGTGCATT CTTTGAGCTT 120
Consensus AACCTGACAG CTGAAGAAGC NTTTAAACTT GCTGGAGTTG AAGGTGGATT TTTCGAGTTN
F.pse PAL1 CAGCCAAAAG AAGGCCTGGC ACTTGTTAAT GGAACAGCTG TTGGTTCTGG CATGGCCTCA 180
F.pse PAL3 CAGCCAAAAG AAGGCCTAGC ACTTGTTAAT GGAACAGCTG TTGGTTCTGG CATGGCCTCT 180
F.pse PAL2 CAGCCAAAAG AAGGCCTTGC GTTAGTCAAT GGCACAGCCG TTGGTTCTGG GATGGCTTCG 180
Consensus CAGCCAAAAG AAGGCCTNGC ACTTGTTAAT GGAACAGCTG TTGGTTCTGG CATGGCCTCN
F.pse PAL1 ATGGTACTTT TTGAGGCTAA TATATTAGCC GTTTTAGCCG AAGTTATGTC AGCAATTTTC 240
F.pse PAL3 ATGGTACTTT TTGAGGCTAA TATATTAGCA GTTCTATCTG AAGTTATGTC AGCAATTTTC 240
F.pse PAL2 ATGGTTCTGT TTGAAGCCAA TATACTTGCT GTGTTAGCTG AGGTTATGTC AGCTATATTT 240
Consensus ATGGTACTTT TTGAGGCTAA TATATTAGCN GTTTTAGCTG AAGTTATGTC AGCAATTTTC
F.pse PAL1 GCTGAAGTGA TGCAAGGAAA GCCTGAATTC ACAGACCATT TGACACATAA GTTGAAACAC 300
F.pse PAL3 GCTGAAGTGA TGCAAGGGAA GCCTGAATTT ACCGACCATT CGACACATAA GTTGAAGCAC 300
F.pse PAL2 GCTGAAGTGA TGCAGGGCAA ACCAGAATTC ACTGACCATT TGACACATAA GTTGAAGCAT 300
Consensus GCTGAAGTGA TGCAAGGNAA GCCTGAATTC ACNGACCATT TGACACATAA GTTGAAGCAC
F.pse PAL1 CATCCGGGCC AAATTGAGGC TGCGGCTATA ATGGAACACA TTTTGGATGG AAGTGCTTAT 360
F.pse PAL3 CATCCAGGGC AGATTGAGGC TGCAGCTATA ATGGAACACA TCTTGGATGG AAGCGCTTAC 360
F.pse PAL2 CATCCTGGGC AAATTGAAGC TGCAGCTATA ATGGAACACA TTTTGGATGG AAGCTCTTAT 360
Consensus CATCCNGGGC AAATTGAGGC TGCAGCTATA ATGGAACACA TTTTGGATGG AAGCGCTTAT
F.pse PAL1 GTTAAGGCTG CTCAGAAGCT ACATGAAATG GATCCATTAC AAAAACCAAA ACAGGACAGA 420
F.pse PAL3 GTTAAGGCTG CTCAGAAGCT CCATGAAATG GATCCATTAC AAAAACCAAA ACAAGACAGA 420
F.pse PAL2 GTTAAGGCTG CTCAGAAGCA ACATGAAATG GATCCCTTGC AAAAACCAAA GCAAGATAGA 420
Consensus GTTAAGGCTG CTCAGAAGCT ACATGAAATG GATCCATTAC AAAAACCAAA ACAAGACAGA
F.pse PAL1 TATGCTCTTA GAACATCTCC TCAGTGGCTT GGTCCTCAAA TTGAAGTGAT TCGATCATCG 480
F.pse PAL3 TATGCTCTTA GAACATCTCC TCAATGGCTA GGTCCTCAAA TTGAAGTGAT CAGATCATCG 480
F.pse PAL2 TATGCTCTTA GGACATCTCC ACAATGGCTT GGACCACAGA TTGAAGTGAT TCGATCGTCA 480
Consensus TATGCTCTTA GAACATCTCC TCAATGGCTT GGTCCTCAAA TTGAAGTGAT TCGATCATCG
F.pse PAL1 ACTAAAATGA TCGAAAGAGA GATTAACTCA GTCAATGATA ACCCATTAAT TGATGTTTCC 540
F.pse PAL3 ACTAAAATGA TCGAAAGAGA AATCAACTCT GTCAACGATA ACCCATTGAT TGATGTTTCC 540
F.pse PAL2 ACAAAAATGA TAGAAAGGGA GATCAATTCT GTCAATGATA ACCCTTTGAT TGATGTGTCG 540
Consensus ACTAAAATGA TCGAAAGAGA GATCAACTCT GTCAATGATA ACCCATTGAT TGATGTTTCC
F.pse PAL1 AGGAACAAAG CTATACATGG TGGCAATTTC CAGGGCACAC CTATTGGAGT GTCAATGGAC 600
F.pse PAL3 AGGAACAAGG CTATACATGG TGGAAATTTC CAGGGCACCC CAATTGGTGT TTCGATGGAC 600
F.pse PAL2 AGGAACAAGG CCATACATGG TGGTAATTTC CAGGGTACCC CTATTGGAGT TTCTATGGAC 600
Consensus AGGAACAAGG CTATACATGG TGGNAATTTC CAGGGCACCC CTATTGGAGT TTCNATGGAC
F.pse PAL1 AATACACGTT TGGCTATTGC AGCAATAGGA AAGCTCATGT TTGCTCAATT TTCAGAACTT 660
F.pse PAL3 AACACACGTT TGGCTATTGC AGCCATTGGA AAGCTGATGT TTGCTCAGTT TTCAGAACTT 660
F.pse PAL2 AATACAAGGT TGGCTATTGC AGCAATTGGA AAGCTCATGT TCGCCCAATT TTCGGAGCTT 660
Consensus AATACACGTT TGGCTATTGC AGCAATTGGA AAGCTCATGT TTGCTCAATT TTCAGAACTT
F.pse PAL1 GTCAACGATT TTTACAACAA TGGGTTGCCA TCAAATTTGT CTGGAGGGCG TAATCCAAGT 720
F.pse PAL3 GTCAACGATT TTTACAACAA TGGGTTGCCA TCCAATTTGT CTGGAGGGCG TAACCCAAGC 720
F.pse PAL2 GTGAATGACT TTTATAACAA TGGGCTGCCA TCTAATCTTT CTGGAGGGCG TAATCCGAGT 720
Consensus GTCAACGATT TTTACAACAA TGGGTTGCCA TCNAATTTGT CTGGAGGGCG TAATCCAAGT
F.pse PAL1 TTGGATTATG GATTCAAGGG AGCTGAGATT GCCATGGCTT CTTACTGCTC TGAACTTCAA 780
F.pse PAL3 TTGGATTATG GATTCAAGGG TGCTGAAATT GCCATGGCAT CATACTGCTC TGAACTACAG 780
F.pse PAL2 TTGGATTATG GTTTTAAGGG CGCTGAAATT GCTATGGCTT CTTACTGCTC CGAGCTACAA 780
Consensus TTGGATTATG GATTCAAGGG NGCTGAAATT GCCATGGCTT CTTACTGCTC TGAACTACAA
F.pse PAL1 TTTTTAGCCA ATCCAGTGAC CAACCATGTC CAAAGCGCTG AGCAACACAA TCAAGATGTC 840
F.pse PAL3 TTTTTAGCCA ATCCAGTGAC TAACCATGTC CAAAGCGCTG AGCAGCACAA TCAAGATGTG 840
F.pse PAL2 TTTTTAGGCA ATCCAGTTAC TAACCATGTC CAAAGCGCTG AACAACACAA TCAAGATGTG 840
Consensus TTTTTAGCCA ATCCAGTGAC TAACCATGTC CAAAGCGCTG AGCAACACAA TCAAGATGTG

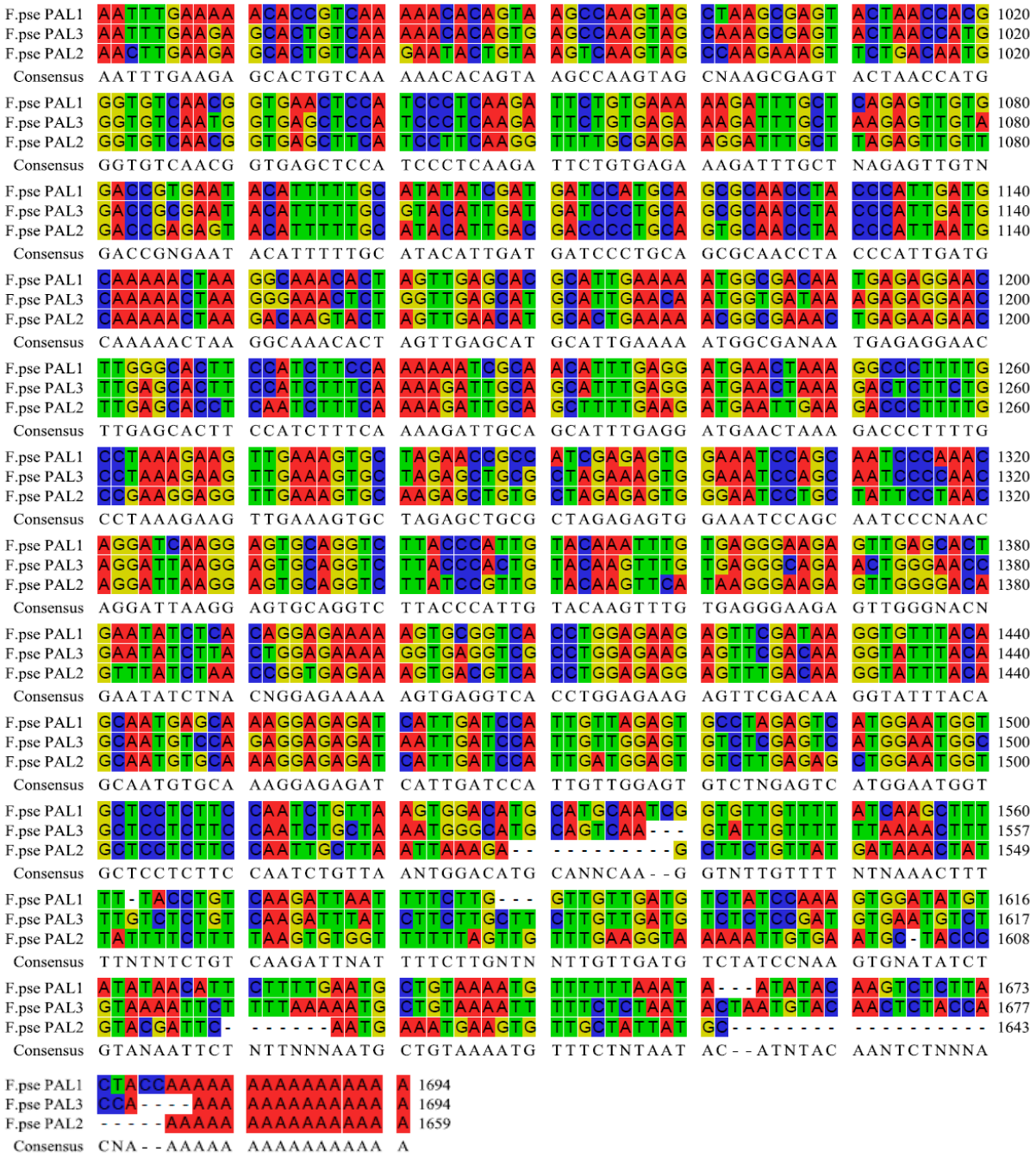


Figure S1. Nucleotide sequences alignment of *PAL1, PAL2*, and *PAL3* genes from *Ferula pseudalliacea*. In the Consensus sequence, the letter N indicates a variation in each of the three sequences.