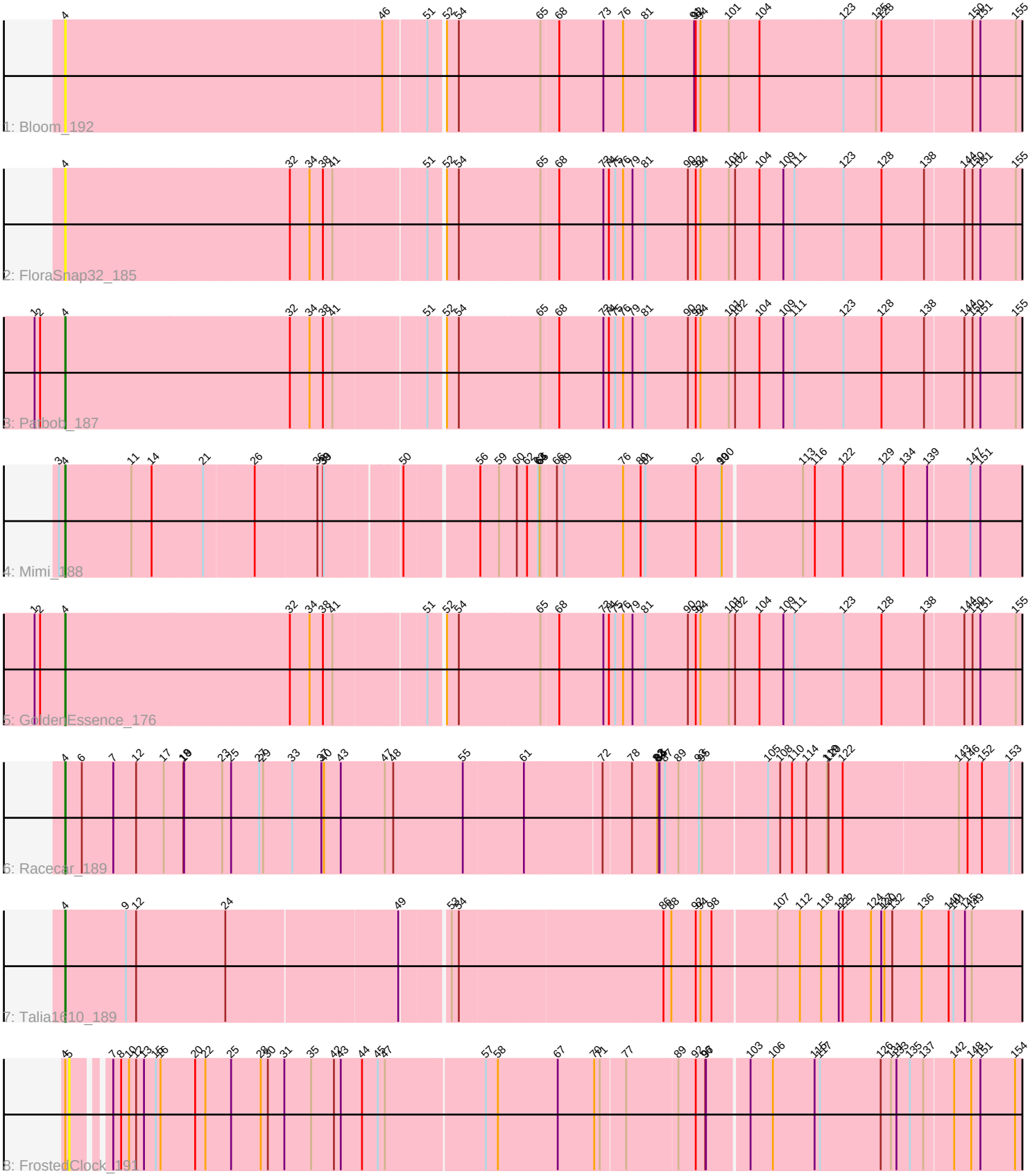
Zoomed Pham 331577



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 331577 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331577 has 8 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Bloom_192
• Track 2 : FloraSnap32_185
• Track 3 : Patbob_187
• Track 4 : Mimi_188
• Track 5 : GoldenEssence_176
• Track 6 : Racecar_189
• Track 7 : Talia1610_189
• Track 8 : FrostedClock_191

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 4, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_192, FloraSnap32_185, GoldenEssence_176, Mimi_188, Patbob_187, Racecar_189, Talia1610_189,

Genes that have the "Most Annotated" start but do not call it:
• FrostedClock_191,

Genes that do not have the "Most Annotated" start:
•

Summary by start number:

Start 4:
• Found in 8 of 8 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 5
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Bloom_192 (FC), FloraSnap32_185 (FC), GoldenEssence_176 (FC), Mimi_188 (FC), Patbob_187 (FC), Racecar_189 (FC), Talia1610_189 (FC),

Start 5:
• Found in 1 of 8 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FrostedClock_191 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 4 was manually annotated 5 times for cluster FC.

Gene Information:

Gene: Bloom_192 Start: 125632, Stop: 131058, Start Num: 4
Candidate Starts for Bloom_192:
(Start: 4 @125632 has 5 MA's), (46, 126790), (51, 126925), (52, 126961), (54, 127006), (65, 127291), (68, 127351), (73, 127519), (76, 127594), (81, 127678), (91, 127861), (92, 127867), (94, 127885), (101, 127993), (104, 128107), (123, 128413), (125, 128530), (128, 128551), (150, 128872), (151, 128896), (155, 129028), (157, 129091), (160, 129121), (174, 129274), (186, 129565), (188, 129592), (191, 129616), (193, 129628), (196, 129676), (202, 129847), (203, 129901), (204, 129904), (210, 130027), (221, 130336), (222, 130348), (227, 130426), (232, 130531), (233, 130618), (235, 130645), (238, 130735), (241, 130819), (242, 130843), (246, 130930), (247, 130972), (250, 131014), (251, 131053),

Gene: FloraSnap32_185 Start: 123963, Stop: 129392, Start Num: 4
Candidate Starts for FloraSnap32_185:
(Start: 4 @123963 has 5 MA's), (32, 124800), (34, 124875), (38, 124926), (41, 124959), (51, 125256), (52, 125292), (54, 125337), (65, 125622), (68, 125682), (73, 125850), (74, 125871), (75, 125895), (76, 125925), (79, 125961), (81, 126009), (90, 126168), (92, 126198), (94, 126216), (101, 126324), (102, 126348), (104, 126438), (109, 126522), (111, 126564), (123, 126744), (128, 126882), (138, 127032), (144, 127173), (150, 127203), (151, 127227), (155, 127359), (157, 127422), (160, 127452), (174, 127605), (196, 128013), (198, 128040), (199, 128100), (201, 128172), (202, 128181), (204, 128238), (210, 128361), (221, 128670), (222, 128682), (230, 128811), (232, 128865), (235, 128979), (238, 129069), (241, 129153), (242, 129177), (246, 129264), (247, 129306), (250, 129348), (251, 129387),

Gene: FrostedClock_191 Start: 126308, Stop: 131746, Start Num: 5
Candidate Starts for FrostedClock_191:
(Start: 4 @126293 has 5 MA's), (5, 126308), (7, 126419), (8, 126449), (10, 126479), (12, 126506), (13, 126536), (15, 126581), (16, 126599), (20, 126722), (22, 126761), (25, 126854), (28, 126965), (30, 126992), (31, 127046), (35, 127148), (42, 127235), (43, 127259), (44, 127340), (45, 127400), (47, 127427), (57, 127778), (58, 127823), (67, 128048), (70, 128186), (71, 128207), (77, 128291), (89, 128468), (92, 128522), (96, 128558), (97, 128561), (103, 128708), (106, 128792), (115, 128948), (117, 128966), (126, 129179), (131, 129212), (133, 129233), (135, 129284), (137, 129335), (142, 129437), (148, 129497), (151, 129518), (154, 129641), (161, 129743), (162, 129755), (163, 129761), (164, 129767), (172, 129854), (176, 129905), (184, 130124), (187, 130181), (194, 130247), (195, 130286), (207, 130589), (208, 130652), (214, 130802), (216, 130817), (220, 130985), (225, 131087), (229, 131135), (237, 131402), (240, 131447), (243, 131591), (244, 131597), (245, 131612), (248, 131660), (250, 131699), (251, 131738),

Gene: GoldenEssence_176 Start: 119841, Stop: 125270, Start Num: 4
Candidate Starts for GoldenEssence_176:
(1, 119724), (2, 119745), (Start: 4 @119841 has 5 MA's), (32, 120678), (34, 120753), (38, 120804), (41, 120837), (51, 121134), (52, 121170), (54, 121215), (65, 121500), (68, 121560), (73, 121728), (74, 121749), (75, 121773), (76, 121803), (79, 121839), (81, 121887), (90, 122046), (92, 122076), (94, 122094), (101, 122202), (102, 122226), (104, 122316), (109, 122400), (111, 122442), (123, 122622), (128, 122760), (138, 122910), (144, 123051), (150, 123081), (151, 123105), (155, 123237), (157, 123300), (160, 123330), (174, 123483), (196, 123891), (198, 123918), (199, 123978), (201, 124050), (202, 124059), (204, 124116), (210, 124239), (221, 124548), (222, 124560), (230, 124689), (232, 124743), (235, 124857), (238, 124947), (241, 125031), (242, 125055), (246, 125142), (247, 125184), (250, 125226),

Gene: Mimi_188 Start: 125347, Stop: 130668, Start Num: 4
Candidate Starts for Mimi_188:
(3, 125323), (Start: 4 @125347 has 5 MA's), (11, 125590), (14, 125662), (21, 125833), (26, 126016), (36, 126241), (38, 126262), (39, 126265), (50, 126493), (56, 126712), (59, 126778), (60, 126841), (62, 126880), (63, 126919), (64, 126925), (65, 126928), (66, 126979), (69, 127006), (76, 127231), (80, 127294), (81, 127312), (92, 127501), (99, 127597), (100, 127600), (113, 127873), (116, 127915), (122, 128017), (129, 128161), (134, 128239), (139, 128323), (147, 128473), (151, 128503), (156, 128686), (159, 128716), (160, 128728), (168, 128830), (179, 128956), (191, 129226), (201, 129445), (202, 129454), (204, 129511), (212, 129706), (213, 129724), (235, 130255), (236, 130309), (238, 130345), (247, 130582), (249, 130585),

Gene: Patbob_187 Start: 126457, Stop: 131883, Start Num: 4
Candidate Starts for Patbob_187:
(1, 126340), (2, 126361), (Start: 4 @126457 has 5 MA's), (32, 127294), (34, 127369), (38, 127420), (41, 127453), (51, 127750), (52, 127786), (54, 127831), (65, 128116), (68, 128176), (73, 128344), (74, 128365), (75, 128389), (76, 128419), (79, 128455), (81, 128503), (90, 128662), (92, 128692), (94, 128710), (101, 128818), (102, 128842), (104, 128932), (109, 129016), (111, 129058), (123, 129238), (128, 129376), (138, 129526), (144, 129667), (150, 129697), (151, 129721), (155, 129853), (157, 129916), (160, 129946), (174, 130099), (186, 130390), (188, 130417), (191, 130441), (193, 130453), (196, 130501), (202, 130672), (204, 130729), (205, 130732), (210, 130852), (218, 131101), (221, 131161), (222, 131173), (232, 131356), (235, 131470), (238, 131560), (241, 131644), (242, 131668), (246, 131755), (247, 131797), (250, 131839),

Gene: Racecar_189 Start: 126225, Stop: 130841, Start Num: 4
Candidate Starts for Racecar_189:
(Start: 4 @126225 has 5 MA's), (6, 126288), (7, 126408), (12, 126492), (17, 126594), (18, 126660), (19, 126663), (23, 126804), (25, 126837), (27, 126942), (29, 126957), (33, 127068), (37, 127179), (40, 127188), (43, 127248), (47, 127404), (48, 127431), (55, 127686), (61, 127905), (72, 128184), (78, 128286), (82, 128382), (83, 128385), (84, 128388), (85, 128391), (87, 128412), (89, 128463), (93, 128529), (95, 128541), (105, 128766), (108, 128811), (110, 128853), (114, 128901), (119, 128973), (120, 128979), (122, 129030), (143, 129450), (146, 129483), (152, 129537), (153, 129636), (166, 129840), (169, 129855), (170, 129864), (171, 129867), (173, 129885), (175, 129909), (177, 129951), (178, 129954), (180, 129975), (182, 130113), (183, 130119), (190, 130245), (200, 130410), (206, 130566), (209, 130653), (211, 130692), (215, 130797),

Gene: Talia1610_189 Start: 125642, Stop: 131137, Start Num: 4
Candidate Starts for Talia1610_189:
(Start: 4 @125642 has 5 MA's), (9, 125864), (12, 125903), (24, 126242), (49, 126839), (53, 126980), (54, 127007), (86, 127748), (88, 127778), (92, 127868), (94, 127886), (98, 127928), (107, 128147), (112, 128222), (118, 128297), (121, 128363), (122, 128378), (124, 128483), (127, 128516), (130, 128528), (132, 128555), (136, 128660), (140, 128762), (141, 128777), (145, 128816), (149, 128840),

(158, 129077), (165, 129158), (167, 129203), (181, 129356), (185, 129542), (189, 129587), (192, 129608), (197, 129665), (217, 130190), (219, 130331), (223, 130409), (224, 130457), (226, 130469), (228, 130475), (231, 130577), (234, 130685), (238, 130799), (239, 130802), (250, 131093),