

Putative Unigene targets of identified with NF90 motif

Unigene	max. #	Score	hits	hit locations (3'UTR)
gnl UG Hs#S2139089	1.04	1	378-405(1.04)	
gnl UG Hs#S3993272	2.3	3	684-709(1.30) 838-863(2.30) 1047-1075(0.35)	
gnl UG Hs#S2293502	0.89	1	214-240(0.89)	
gnl UG Hs#S4822617	2.08	3	510-535(1.30) 1028-1053(2.08) 1586-1612(0.04)	
gnl UG Hs#S14863701	1.67	3	891-916(0.14) 1351-1377(1.67) 1654-1681(0.47)	
gnl UG Hs#S4820352	1.76	2	1145-1171(0.52) 2779-2804(1.76)	
gnl UG Hs#S2139264	1.26	1	189-215(1.26)	
gnl UG Hs#S5494999	1.17	1	537-562(1.17)	
gnl UG Hs#S5978385	5.28	2	224-249(5.28) 261-286(2.46)	
gnl UG Hs#S2293530	1.4	2	200-226(1.40) 636-662(0.08)	
gnl UG Hs#S14812373	0.32	1	1032-1056(0.32)	
gnl UG Hs#S2294590	1.24	3	162-187(1.24) 768-794(0.08) 1309-1334(0.89)	
gnl UG Hs#S1731028	0.3	1	111-139(0.30)	
gnl UG Hs#S1731506	1.67	3	1058-1084(1.67) 1085-1111(1.08) 1150-1175(0.17)	
gnl UG Hs#S4553565	2.98	2	774-799(2.98) 1241-1266(0.46)	
gnl UG Hs#S2140367	1.78	3	137-162(0.72) 195-220(0.30) 1495-1520(1.78)	
gnl UG Hs#S15635468	2.98	5	510-539(2.98) 784-810(2.17) 827-850(0.69) 955-981(0.33) 1316-1341(0.13)	
gnl UG Hs#S4621470	2.97	3	78-103(2.97) 432-457(0.24) 492-517(0.08)	
gnl UG Hs#S10832097	2.46	1	508-533(2.46)	
gnl UG Hs#S4827514	5.87	9	258-282(1.39) 389-417(5.87) 1025-1050(5.62) 1100-1125(0.72) 1293-1318(0.80) 2213-2241(1.15) 2255-2280(0.68) 2420-2447(1.02) 2660-2685(0.82)	
gnl UG Hs#S15898576	2.62	4	132-157(0.59) 403-428(2.36) 1107-1131(0.94) 1389-1415(2.62)	
gnl UG Hs#S15632200	4.23	3	21-49(0.59) 724-749(0.72) 757-783(4.23)	
gnl UG Hs#S3601530	2.04	2	207-235(0.49) 237-262(2.04)	
gnl UG Hs#S4807638	1.67	3	182-207(1.11) 887-912(1.11) 1148-1173(1.67)	
gnl UG Hs#S4554648	1.41	1	76-101(1.41)	
gnl UG Hs#S4807742	4.26	2	820-845(4.26) 2030-2058(0.09)	
gnl UG Hs#S4553541	3.43	2	280-305(0.61) 330-355(3.43)	
gnl UG Hs#S1732278	0.24	1	574-602(0.24)	
gnl UG Hs#S1727054	0.65	1	683-708(0.65)	
gnl UG Hs#S1730933	0.59	1	790-818(0.59)	
gnl UG Hs#S1731349	0.91	3	384-410(0.91) 564-589(0.26) 752-779(0.41)	
gnl UG Hs#S3439091	0.72	1	582-609(0.72)	
gnl UG Hs#S4553278	1.37	1	75-102(1.37)	
gnl UG Hs#S2293174	1.33	1	92-119(1.33)	
gnl UG Hs#S1729169	3.24	1	672-697(3.24)	
gnl UG Hs#S1730709	4.23	1	389-415(4.23)	
gnl UG Hs#S1728961	3.66	4	298-323(0.58) 372-398(0.23) 603-629(3.66) 974-999(3.65)	
gnl UG Hs#S2294006	2.72	3	266-291(2.72) 1075-1101(1.23) 1233-1259(0.50)	
gnl UG Hs#S15641543	2.65	6	465-491(1.94) 703-728(1.02) 973-999(2.65) 1132-1157(0.26) 1311-1336(0.72) 1552-1578(0.91)	
gnl UG Hs#S2293686	0.27	1	275-299(0.27)	
gnl UG Hs#S15639840	1.98	2	843-868(1.98) 1483-1508(0.17)	
gnl UG Hs#S3219910	1.46	2	664-689(1.46) 2084-2109(0.33)	
gnl UG Hs#S4825329	5.72	5	1423-1451(0.88) 1469-1495(2.99) 1920-1946(1.60) 2191-2216(0.24) 3347-3373(5.72)	
gnl UG Hs#S2294008	0.05	1	587-614(0.05)	
gnl UG Hs#S4824793	1.4	6	249-277(0.23) 326-351(1.13) 807-833(0.42) 1243-1267(0.91) 1656-1681(1.40) 2562-2589(0.07)	
gnl UG Hs#S2294058	0.14	2	310-336(0.10) 984-1009(0.14)	
gnl UG Hs#S5495042	0.29	1	284-311(0.29)	
gnl UG Hs#S3219948	3.97	4	191-216(3.97) 290-317(0.49) 755-780(0.88) 985-1011(3.05)	
gnl UG Hs#S3989591	2.87	2	1395-1420(0.88) 1676-1703(2.87)	
gnl UG Hs#S4821335	2.79	13	314-339(0.24) 438-463(1.68) 593-619(1.66) 914-939(0.61) 1570-1598(1.23) 2189-2215(1.40) 2224-2247(2.46) 3567-3592(0.98) 3607-3632(1.17) 4511-4537(0.72) 4692-4717(0.94) 5537-5562(0.14) 5562-5587(0.14)	
gnl UG Hs#S1731136	1.53	1	817-842(1.53)	

gnl UG Hs#S4285159	0.03	1	1079-1106(0.03)
gnl UG Hs#S4614522	0.72	1	1940-1966(0.72)
gnl UG Hs#S3803664	0.37	1	231-257(0.37)
gnl UG Hs#S3439654	0.19	1	501-526(0.19)
gnl UG Hs#S1729050	1.57	1	80-106(1.57)
gnl UG Hs#S1731485	5.36	2	214-242(5.36) 357-382(0.30)
gnl UG Hs#S3973122	0.5	1	1346-1372(0.50)
gnl UG Hs#S14802451	0.81	4	884-912(0.81) 936-961(0.46) 1256-1282(0.26) 2425-2453(0.52)
gnl UG Hs#S4623444	6.62	7	641-669(1.17) 693-719(2.79) 743-771(1.92) 1684-1709(6.62) 2003-2032(0.90) 2218-2243(0.91) 2742-2771(0.39)
gnl UG Hs#S2294497	0.81	3	330-355(0.68) 1715-1740(0.81) 2333-2356(0.19)
gnl UG Hs#S3438878	1.08	1	96-122(1.08)
gnl UG Hs#S15639037	1.53	1	170-195(1.53)
gnl UG Hs#S3219492	2.91	1	146-171(2.91)
gnl UG Hs#S3601572	3.52	2	1093-1119(2.83) 1491-1518(3.52)
gnl UG Hs#S1726827	1.55	2	84-109(1.55) 822-847(0.46)
gnl UG Hs#S3219566	0.09	1	1613-1639(0.09)
gnl UG Hs#S3826006	2.88	2	96-121(2.88) 196-222(0.50)
gnl UG Hs#S4808304	2.78	3	295-321(0.40) 1154-1180(0.54) 1297-1325(2.78)
gnl UG Hs#S2139485	2.1	5	234-259(1.83) 304-329(2.10) 515-539(1.17) 652-677(1.82) 1477-1505(0.07)
gnl UG Hs#S3803609	2.65	2	224-249(0.94) 1266-1291(2.65)
gnl UG Hs#S4816400	1.26	1	115-140(1.26)
gnl UG Hs#S1729878	0.91	3	197-225(0.65) 804-829(0.91) 1261-1287(0.27)
gnl UG Hs#S5931145	2.72	5	9-34(1.46) 141-166(2.29) 356-381(2.20) 503-528(2.72) 579-604(0.21)
gnl UG Hs#S4821389	1.75	4	235-258(1.75) 313-338(1.43) 460-485(0.36) 1506-1531(0.66)
gnl UG Hs#S7110433	2.23	1	1840-1868(2.23)
gnl UG Hs#S4815102	1.49	5	811-836(0.45) 1343-1366(0.10) 1381-1407(1.49) 1444-1469(0.72) 1602-1627(1.48)
gnl UG Hs#S3355651	1.04	1	223-248(1.04)
gnl UG Hs#S15631737	3.94	2	1369-1394(0.04) 1593-1618(3.94)
gnl UG Hs#S2293384	5.11	1	472-497(5.11)
gnl UG Hs#S1731722	2.3	3	406-432(1.91) 444-470(1.34) 1029-1054(2.30)
gnl UG Hs#S1729740	1.88	2	107-134(1.88) 379-406(0.45)
gnl UG Hs#S15730191	0.94	1	43-71(0.94)
gnl UG Hs#S1727956	0.69	1	117-145(0.69)
gnl UG Hs#S7111976	7.56	6	1035-1061(7.56) 1489-1514(2.85) 1694-1720(2.62) 1831-1856(0.40) 1966-1991(0.08) 2316-2342(0.65)
gnl UG Hs#S3619579	1.46	1	410-435(1.46)
gnl UG Hs#S816220	0.48	2	2281-2306(0.48) 2483-2508(0.30)
gnl UG Hs#S1727470	1.4	3	38-63(0.17) 235-260(0.57) 497-522(1.40)
gnl UG Hs#S472684	0.84	2	774-801(0.69) 2733-2759(0.84)
gnl UG Hs#S1727069	2.98	4	353-378(0.30) 1926-1951(1.35) 1977-2002(1.72) 2034-2059(2.98)
gnl UG Hs#S4622223	1.56	4	60-86(1.56) 522-547(0.62) 569-594(0.07) 685-713(0.66)
gnl UG Hs#S3814518	0.23	1	880-906(0.23)
gnl UG Hs#S1727133	3.4	2	106-132(3.40) 509-536(0.24)
gnl UG Hs#S3817949	1.17	1	169-194(1.17)
gnl UG Hs#S14802396	0.36	1	493-520(0.36)
gnl UG Hs#S1729663	0.65	1	23-48(0.65)
gnl UG Hs#S5978374	6.94	14	174-199(1.08) 393-420(1.88) 501-527(1.10) 613-639(4.78) 755-780(6.30) 785-810(1.30) 1121-1146(2.31) 1463-1488(6.94) 1717-1742(0.27) 1800-1825(0.72) 1891-1917(0.66) 1960-1985(1.57) 2171-
gnl UG Hs#S2139567	1.5	2	509-537(1.04) 553-582(1.50)
gnl UG Hs#S4813750	0.88	2	294-320(0.17) 693-719(0.88)
gnl UG Hs#S4546006	3.47	2	697-720(0.37) 851-878(3.47)
gnl UG Hs#S2140077	4.47	2	100-125(4.47) 460-486(0.01)
gnl UG Hs#S10831948	0.17	1	1493-1518(0.17)
gnl UG Hs#S1732140	3.72	7	804-829(0.72) 1653-1678(2.56) 1872-1897(0.82) 2023-2048(3.52) 2243-2269(0.50) 2952-2978(3.72) 3627-3652(1.46)
gnl UG Hs#S1731302	1.42	1	165-193(1.42)
gnl UG Hs#S3220092	1.44	2	1237-1265(0.59) 1775-1801(1.44)

gnl UG Hs#S1729849	1.05	2 357-383(0.36) 587-612(1.05)
gnl UG Hs#S3618618	2.55	10 28-54(1.40) 89-114(0.66) 847-875(2.23) 971-997(0.54) 2552-2580(2.55) 2630-2655(1.89) 2707-2732(0.62) 2767-2793(0.28) 2942-2967(1.34) 3014-3041(0.94)
gnl UG Hs#S2293479	2.07	5 83-111(2.07) 229-254(0.17) 649-674(0.36) 954-980(1.30) 1000-1025(0.46)
gnl UG Hs#S1729036	0.67	4 111-136(0.07) 171-196(0.48) 1163-1188(0.07) 1269-1292(0.67)
gnl UG Hs#S11046612	0.58	1 92-118(0.58)
gnl UG Hs#S7111721	0.64	1 519-547(0.64)
gnl UG Hs#S1727282	3.57	3 253-278(1.89) 443-469(0.18) 510-535(3.57)
gnl UG Hs#S4828548	2.45	2 209-235(0.01) 287-312(2.45)
gnl UG Hs#S4807817	2.76	2 395-420(0.90) 570-596(2.76)
gnl UG Hs#S1731218	1.26	2 18-44(1.26) 101-126(0.58)
gnl UG Hs#S15846837	0.5	2 331-357(0.50) 402-428(0.04)
gnl UG Hs#S14802214	4.88	1 69-96(4.88)
gnl UG Hs#S1726966	0.32	1 134-159(0.32)
gnl UG Hs#S4809865	2.2	5 924-949(2.20) 980-1007(0.23) 1153-1179(2.18) 1438-1464(0.58) 1614-1640(0.81)
gnl UG Hs#S14813073	1.82	2 839-862(1.43) 5182-5205(1.82)
gnl UG Hs#S6091908	2.57	3 69-95(1.40) 360-385(2.57) 879-907(0.34)
gnl UG Hs#S1729530	2.23	1 491-519(2.23)
gnl UG Hs#S1728550	1.14	1 402-427(1.14)
gnl UG Hs#S4808213	3.98	1 24-49(3.98)
gnl UG Hs#S1731541	0.98	2 445-470(0.18) 551-577(0.98)
gnl UG Hs#S15637484	4.62	5 143-169(2.90) 990-1013(4.11) 1056-1083(0.69) 1273-1298(4.62) 1557-1584(0.32)
gnl UG Hs#S3219510	0.14	1 209-234(0.14)
gnl UG Hs#S3438921	2.83	2 146-172(2.83) 606-634(2.40)
gnl UG Hs#S1730227	1.76	2 109-135(1.76) 628-651(0.47)
gnl UG Hs#S1729697	3.01	4 1012-1037(3.01) 1316-1341(1.69) 1737-1763(2.23) 1766-1791(0.43)
gnl UG Hs#S2139700	3.15	1 427-453(3.15)
gnl UG Hs#S1728125	1.14	1 35-60(1.14)
gnl UG Hs#S1732083	1.53	2 409-434(1.43) 540-565(1.53)
gnl UG Hs#S1728392	3.84	3 488-513(3.84) 689-714(3.40) 836-862(0.00)
gnl UG Hs#S3603829	2.93	2 287-313(2.93) 383-408(0.09)
gnl UG Hs#S4436338	0.72	1 55-80(0.72)
gnl UG Hs#S1727082	4.97	3 156-182(0.50) 232-260(4.97) 494-519(0.26)
gnl UG Hs#S2139971	0.5	1 260-286(0.50)
gnl UG Hs#S4631395	4.94	2 314-339(0.39) 1413-1438(4.94)
gnl UG Hs#S4285036	3.38	6 1576-1602(1.40) 1639-1667(0.23) 1786-1812(3.38) 3113-3138(0.94) 4289-4315(1.04) 4795-4823(0.07)
gnl UG Hs#S2139824	0.26	1 102-127(0.26)
gnl UG Hs#S2139909	1.75	2 128-155(1.66) 186-211(1.75)
gnl UG Hs#S2293245	0.88	1 543-568(0.88)
gnl UG Hs#S1732336	2.55	4 227-252(0.94) 359-385(2.27) 756-781(2.55) 1802-1828(2.52)
gnl UG Hs#S4823896	1.91	3 191-215(1.91) 660-685(1.17) 1270-1295(0.30)
gnl UG Hs#S3619237	1.3	1 395-423(1.30)
gnl UG Hs#S4546273	1.9	1 439-466(1.90)
gnl UG Hs#S2138666	3.62	4 134-162(2.92) 214-239(0.23) 820-846(3.62) 1457-1485(0.39)
gnl UG Hs#S3881167	6.62	2 241-266(6.62) 311-337(1.52)
gnl UG Hs#S7111042	0.81	4 413-439(0.17) 903-931(0.30) 1026-1051(0.04) 1962-1987(0.81)
gnl UG Hs#S4807660	0.89	1 265-288(0.89)
gnl UG Hs#S2139496	2.55	8 143-170(2.55) 429-454(0.37) 889-912(0.47) 2390-2416(0.78) 2829-2855(2.06) 2956-2979(0.24) 3338-3363(0.26) 3396-3424(0.30)
gnl UG Hs#S4553698	2.98	1 126-151(2.98)
gnl UG Hs#S1730194	1.9	1 538-563(1.90)
gnl UG Hs#S4617251	4.78	4 449-476(4.78) 813-840(0.98) 983-1009(0.72) 1362-1387(0.40)
gnl UG Hs#S15631455	1.17	2 503-529(1.17) 685-711(0.55)
gnl UG Hs#S1727265	4.53	3 373-398(0.87) 426-450(0.55) 752-777(4.53)
gnl UG Hs#S4615980	4.33	2 535-560(0.98) 691-716(4.33)
gnl UG Hs#S4618696	0.66	2 791-820(0.66) 1358-1381(0.46)

gnl UG Hs#S1732433	4.26	2 485-510(4.26) 657-682(3.04)
gnl UG Hs#S1731759	1.72	4 76-101(1.59) 254-279(0.20) 293-321(0.71) 419-444(1.72)
gnl UG Hs#S4825757	1.1	3 1021-1048(0.24) 1239-1265(0.69) 1476-1504(1.10)
gnl UG Hs#S7110460	2.72	3 699-726(2.56) 778-806(2.72) 1934-1960(1.08)
gnl UG Hs#S3438600	2.01	1 1599-1624(2.01)
gnl UG Hs#S1729684	1.52	1 596-624(1.52)
gnl UG Hs#S3619185	1.08	2 927-952(0.04) 1077-1102(1.08)
gnl UG Hs#S2293599	1.76	2 427-452(1.40) 483-509(1.76)
gnl UG Hs#S2139610	4.24	2 60-85(4.24) 1499-1524(1.51)
gnl UG Hs#S3881215	0.3	1 76-99(0.30)
gnl UG Hs#S3438812	0.57	1 542-567(0.57)
gnl UG Hs#S1726208	2.23	1 231-256(2.23)
gnl UG Hs#S1731135	3.52	4 128-153(0.08) 1042-1067(3.52) 1099-1124(0.50) 1260-1285(1.17)
gnl UG Hs#S15638191	0.65	1 2825-2850(0.65)
gnl UG Hs#S1732357	4.11	4 339-364(1.36) 1205-1230(2.98) 1977-2003(1.75) 2392-2417(4.11)
gnl UG Hs#S4807603	0.78	1 112-137(0.78)
gnl UG Hs#S4622304	2.46	2 846-872(0.04) 994-1020(2.46)
gnl UG Hs#S2138676	0.98	2 268-292(0.07) 1059-1084(0.98)
gnl UG Hs#S3814694	3.71	1 436-461(3.71)
gnl UG Hs#S2293281	0.27	1 667-694(0.27)
gnl UG Hs#S1731430	1.3	1 8-36(1.30)
gnl UG Hs#S5518169	2.94	1 409-434(2.94)
gnl UG Hs#S4283747	3.55	2 525-550(3.55) 1544-1569(0.34)
gnl UG Hs#S2293195	0.55	2 758-784(0.26) 1099-1127(0.55)
gnl UG Hs#S1727545	0.46	1 419-444(0.46)
gnl UG Hs#S1726298	0.4	1 38-63(0.40)
gnl UG Hs#S1824324	0.16	1 65-89(0.16)
gnl UG Hs#S1729322	1.2	2 672-697(1.20) 747-773(0.33)
gnl UG Hs#S1728844	1.56	1 636-661(1.56)
gnl UG Hs#S1727787	2.11	3 472-497(0.13) 839-864(2.11) 926-954(1.01)
gnl UG Hs#S15633057	0.92	1 622-646(0.92)
gnl UG Hs#S998757	0.91	1 1661-1686(0.91)
gnl UG Hs#S3989527	2.66	2 714-741(2.66) 895-920(1.26)
gnl UG Hs#S1727558	3.67	4 212-237(0.91) 401-429(0.12) 599-625(0.08) 847-873(3.67)
gnl UG Hs#S5978493	1.24	1 664-689(1.24)
gnl UG Hs#S417639	6.89	2 328-354(6.89) 361-386(0.33)
gnl UG Hs#S2138757	2.3	6 732-759(0.26) 866-892(2.30) 894-916(1.16) 939-964(0.82) 993-1018(0.62) 1414-1441(0.70)
gnl UG Hs#S2139393	3.08	4 450-475(3.08) 768-796(1.40) 970-996(1.34) 1057-1082(1.81)
gnl UG Hs#S6159025	5.11	4 736-762(0.23) 1437-1467(1.43) 2928-2953(5.11) 3267-3292(1.39)
gnl UG Hs#S4044803	3.75	1 3573-3599(3.75)
gnl UG Hs#S2139866	1.87	3 452-477(0.46) 490-515(1.87) 1202-1227(1.30)
gnl UG Hs#S7110740	1.46	2 811-837(0.01) 954-979(1.46)
gnl UG Hs#S4616129	1.81	6 328-353(0.36) 524-550(1.75) 760-785(0.21) 1876-1903(1.14) 2070-2100(1.81) 2659-2685(1.01)
gnl UG Hs#S1727216	0.3	1 304-332(0.30)
gnl UG Hs#S3439071	2.72	6 323-349(0.26) 1082-1107(1.62) 1664-1688(0.84) 1689-1714(0.33) 1760-1788(0.23) 1830-1858(2.72)
gnl UG Hs#S3602231	2.27	1 1926-1952(2.27)
gnl UG Hs#S1730986	1.62	5 377-405(0.45) 583-609(1.62) 1133-1158(0.53) 1801-1826(0.48) 1876-1902(0.23)
gnl UG Hs#S4807581	1.79	2 604-630(0.91) 1564-1589(1.79)
gnl UG Hs#S3219016	1.25	1 155-183(1.25)
gnl UG Hs#S5860345	0.14	1 554-579(0.14)
gnl UG Hs#S4823929	2.88	5 446-470(2.88) 833-858(0.36) 1018-1043(0.13) 1181-1206(0.72) 2493-2518(0.40)
gnl UG Hs#S4817797	1.2	3 231-256(1.04) 285-311(1.08) 903-928(1.20)
gnl UG Hs#S4807604	4.3	5 31-56(1.34) 543-568(4.30) 754-779(0.65) 786-814(0.30) 1581-1606(2.72)
gnl UG Hs#S1726420	0.4	1 604-629(0.40)

gnl UG Hs#S2293719	1.86	4	381-409(0.16) 1166-1192(1.86) 1645-1671(0.84) 1694-1720(1.83)
gnl UG Hs#S3219552	1.89	3	221-246(1.89) 588-613(0.13) 2170-2197(0.97)
gnl UG Hs#S1729687	1.63	1	222-248(1.63)
gnl UG Hs#S2293418	2.33	3	214-239(1.40) 1455-1480(2.33) 1875-1901(0.43)
gnl UG Hs#S3219347	1.94	3	908-932(0.71) 1584-1609(0.13) 1843-1870(1.94)
gnl UG Hs#S2140224	1.33	3	1385-1409(0.14) 1893-1919(1.26) 2006-2031(1.33)
gnl UG Hs#S2139678	2.08	1	1068-1094(2.08)
gnl UG Hs#S2139164	0.3	1	222-247(0.30)
gnl UG Hs#S1730894	1.13	3	169-196(0.92) 491-516(0.04) 725-750(1.13)
gnl UG Hs#S4284093	0.11	1	1101-1127(0.11)
gnl UG Hs#S2293998	1.98	2	407-432(1.98) 466-491(0.09)
gnl UG Hs#S3603157	1.92	1	236-262(1.92)
gnl UG Hs#S270387	0.61	1	119-146(0.61)
gnl UG Hs#S2294506	1.63	2	225-250(0.72) 262-287(1.63)
gnl UG Hs#S1731285	0.23	1	328-353(0.23)
gnl UG Hs#S3601735	4.3	6	1034-1060(0.47) 1316-1342(4.30) 1474-1500(3.18) 1743-1768(0.20) 2054-2079(0.34) 2144-2169(1.04)
gnl UG Hs#S2293674	1.18	2	218-244(0.33) 1344-1370(1.18)
gnl UG Hs#S3988015	0.21	1	820-846(0.21)
gnl UG Hs#S1727722	3.67	1	29-55(3.67)
gnl UG Hs#S4046550	1.36	1	119-144(1.36)
gnl UG Hs#S3993546	2.72	1	781-806(2.72)
gnl UG Hs#S1726418	2.21	1	228-253(2.21)
gnl UG Hs#S1728002	4.66	2	481-507(1.86) 574-602(4.66)
gnl UG Hs#S7110713	0.94	2	2-26(0.11) 121-146(0.94)
gnl UG Hs#S1824401	3.78	6	467-492(1.37) 1129-1154(1.78) 1703-1728(3.78) 3888-3914(0.75) 4321-4347(2.04) 5438-5461(1.47)
gnl UG Hs#S4807599	0.59	2	502-530(0.59) 671-696(0.46)
gnl UG Hs#S4045880	2.13	1	185-211(2.13)
gnl UG Hs#S1727872	1.56	3	382-407(1.56) 1518-1543(1.36) 2035-2061(0.84)
gnl UG Hs#S5930944	1.81	3	262-287(1.81) 1214-1240(1.69) 1322-1348(1.65)
gnl UG Hs#S5978572	0.8	1	342-369(0.80)
gnl UG Hs#S1729342	5.58	3	452-477(5.58) 1564-1590(1.17) 1895-1922(1.17)
gnl UG Hs#S3619201	0.83	4	211-236(0.72) 1151-1177(0.83) 1279-1304(0.72) 1715-1741(0.52)
gnl UG Hs#S3220053	1.25	4	241-265(1.25) 485-511(0.04) 1038-1065(0.69) 1199-1224(0.72)
gnl UG Hs#S1731106	2.35	1	335-361(2.35)
gnl UG Hs#S1727186	2.98	3	260-285(2.98) 1049-1072(0.81) 1238-1263(0.94)
gnl UG Hs#S1731279	0.13	1	122-147(0.13)
gnl UG Hs#S7111237	1.26	1	964-993(1.26)
gnl UG Hs#S1727024	2.94	3	299-324(0.46) 407-432(0.76) 818-843(2.94)
gnl UG Hs#S2293603	3.85	1	500-525(3.85)
gnl UG Hs#S2139438	3.93	7	120-145(1.34) 475-500(2.47) 733-759(3.08) 848-874(3.04) 1099-1124(1.68) 1168-1193(1.04) 1265-1290(3.93)
gnl UG Hs#S1727843	2.95	1	424-450(2.95)
gnl UG Hs#S7112147	2.17	2	515-540(2.17) 792-818(1.01)
gnl UG Hs#S4820691	1.76	2	279-306(1.76) 313-340(0.21)
gnl UG Hs#S3601757	4.04	3	365-391(4.04) 809-837(0.40) 1128-1155(0.17)
gnl UG Hs#S4825405	0.44	1	1756-1782(0.44)
gnl UG Hs#S7111496	0.36	1	143-170(0.36)
gnl UG Hs#S2140323	3.49	1	653-679(3.49)
gnl UG Hs#S3438511	1.92	2	1315-1340(0.94) 1579-1603(1.92)
gnl UG Hs#S1730427	1.13	1	115-141(1.13)
gnl UG Hs#S4814672	2.3	2	1618-1643(0.55) 2092-2115(2.30)
gnl UG Hs#S4807790	1.65	3	255-281(0.76) 570-596(0.53) 866-891(1.65)
gnl UG Hs#S3601653	2.49	1	397-423(2.49)
gnl UG Hs#S5978505	2.13	4	380-406(1.24) 1137-1162(2.13) 1587-1613(1.60) 1984-2010(0.21)
gnl UG Hs#S4807519	1.47	3	751-776(0.13) 820-846(1.26) 1050-1075(1.47)

gnl UG Hs#S2139555	0.17	2 2502-2527(0.08) 3282-3307(0.17)
gnl UG Hs#S3219899	0.37	1 399-424(0.37)
gnl UG Hs#S5978422	2.58	7 181-206(2.33) 668-693(0.88) 738-763(0.34) 772-797(2.58) 2087-2112(0.30) 2249-2275(1.27) 2640-2666(1.76)
gnl UG Hs#S2139665	3.13	2 1539-1564(2.82) 1744-1769(3.13)
gnl UG Hs#S4392326	0.45	2 1143-1171(0.45) 1386-1412(0.10)
gnl UG Hs#S2294451	4.29	2 388-412(1.31) 855-883(4.29)
gnl UG Hs#S2139774	1.3	4 280-305(1.30) 311-337(0.30) 386-411(0.17) 515-540(1.26)
gnl UG Hs#S4435548	2.26	4 236-262(0.27) 462-487(0.36) 774-799(2.04) 850-875(2.26)
gnl UG Hs#S4836434	0.8	1 501-526(0.80)
gnl UG Hs#S3438142	0.1	1 1838-1866(0.10)
gnl UG Hs#S2139180	1.47	1 375-403(1.47)
gnl UG Hs#S2293347	4.85	2 281-308(2.72) 673-698(4.85)
gnl UG Hs#S3219184	1.01	1 288-314(1.01)
gnl UG Hs#S1729659	0.62	1 776-804(0.62)
gnl UG Hs#S3601683	5.36	3 112-137(5.36) 693-720(1.51) 1100-1125(0.16)
gnl UG Hs#S4392378	0.53	1 334-359(0.53)
gnl UG Hs#S4045830	3.84	7 84-109(1.14) 275-300(3.84) 360-385(1.65) 386-411(1.37) 464-490(0.89) 992-1018(0.50) 1109-1134(1.63)
gnl UG Hs#S2293613	1.85	3 210-235(0.81) 294-318(1.85) 596-621(0.67)
gnl UG Hs#S1728202	1.69	3 863-886(1.69) 1015-1040(0.65) 1362-1388(0.30)
gnl UG Hs#S1732226	0.62	2 279-305(0.42) 337-362(0.62)
gnl UG Hs#S15636342	2.65	2 279-304(2.65) 385-413(1.49)
gnl UG Hs#S1730188	0.04	1 205-231(0.04)
gnl UG Hs#S5930956	3.11	1 120-145(3.11)
gnl UG Hs#S3547086	0.53	2 188-213(0.53) 534-561(0.46)
gnl UG Hs#S3438626	0.98	1 633-658(0.98)
gnl UG Hs#S4828014	2.75	1 992-1018(2.75)
gnl UG Hs#S4807351	1.3	1 1111-1136(1.30)
gnl UG Hs#S1728260	4.36	2 224-249(4.36) 553-578(3.72)
gnl UG Hs#S1732207	4.23	5 241-266(4.23) 917-942(4.15) 1102-1126(0.17) 1136-1162(0.17) 1443-1470(0.24)
gnl UG Hs#S1731145	0.46	1 195-220(0.46)
gnl UG Hs#S1727537	4.13	2 135-160(0.50) 693-718(4.13)
gnl UG Hs#S1824562	2.72	8 26-51(2.04) 827-853(2.65) 1155-1180(1.20) 1296-1321(1.07) 1592-1620(0.53) 1911-1939(1.93) 2942-2967(2.72) 3319-3345(1.36)
gnl UG Hs#S2294169	2.56	5 915-940(1.11) 1037-1063(0.01) 1252-1280(0.40) 1368-1396(0.74) 1515-1543(2.56)
gnl UG Hs#S6693359	0.57	1 566-592(0.57)
gnl UG Hs#S3218978	0.2	1 201-229(0.20)
gnl UG Hs#S2294306	2.05	6 1167-1192(1.46) 1207-1232(0.94) 1277-1302(2.05) 2350-2374(0.07) 2473-2498(0.30) 2536-2559(1.31)
gnl UG Hs#S12744127	0.57	2 484-511(0.28) 647-672(0.57)
gnl UG Hs#S4284542	0.5	1 214-240(0.50)
gnl UG Hs#S1732020	3.93	8 818-843(0.65) 941-967(3.93) 970-996(0.27) 3414-3439(2.12) 3479-3507(0.66) 5462-5490(0.52) 5674-5700(0.66) 5766-5791(1.82)
gnl UG Hs#S1726510	4.82	2 484-510(4.82) 584-609(0.77)
gnl UG Hs#S4553557	0.65	1 204-229(0.65)
gnl UG Hs#S2139242	2.81	1 136-164(2.81)
gnl UG Hs#S1969027	0.57	2 1377-1402(0.57) 1406-1432(0.27)
gnl UG Hs#S7110193	1.23	2 196-221(1.23) 352-376(0.90)
gnl UG Hs#S1728696	2.7	2 248-273(2.70) 332-358(1.72)
gnl UG Hs#S3218909	2.56	3 123-148(2.56) 211-237(2.04) 350-376(2.20)
gnl UG Hs#S4435718	3.26	1 129-154(3.26)
gnl UG Hs#S14863420	0.58	1 300-328(0.58)
gnl UG Hs#S1729219	0.05	1 19-44(0.05)
gnl UG Hs#S15633077	1.3	1 101-126(1.30)
gnl UG Hs#S4553515	0.94	1 1722-1747(0.94)
gnl UG Hs#S4044964	2.17	2 241-267(1.82) 353-379(2.17)
gnl UG Hs#S15631711	2.08	5 174-199(1.67) 244-272(1.03) 503-529(2.08) 539-565(0.04) 1102-1129(1.62)
gnl UG Hs#S1726667	2.39	6 145-170(1.17) 1680-1705(1.40) 2220-2245(2.39) 2379-2405(0.14) 2639-2664(0.13) 2701-2726(0.57)

gnl UG Hs#S2140679	0.21	1	19-42(0.21)
gnl UG Hs#S1729415	2.4	1	138-162(2.40)
gnl UG Hs#S3619230	0.08	1	151-176(0.08)
gnl UG Hs#S4435931	0.98	1	360-385(0.98)
gnl UG Hs#S3355540	2.27	1	353-379(2.27)
gnl UG Hs#S4822818	0.76	1	212-240(0.76)
gnl UG Hs#S15640173	3.34	1	205-230(3.34)
gnl UG Hs#S1728623	1.34	4	207-232(0.26) 311-337(0.89) 511-537(0.89) 750-776(1.34)
gnl UG Hs#S4618604	1.4	2	245-270(0.22) 296-321(1.40)
gnl UG Hs#S4826188	1.34	4	293-321(1.17) 339-364(0.45) 1859-1887(1.34) 2062-2089(0.78)
gnl UG Hs#S1824417	1.34	11	692-720(0.06) 1408-1436(0.47) 1959-1985(0.30) 2935-2960(0.66) 3075-3100(0.46) 3218-3244(1.34) 3272-3300(0.36) 3945-3972(1.03) 4494-4522(0.23) 4840-4865(0.72) 4998-5023(0.16)
gnl UG Hs#S1726584	1.46	2	64-90(1.46) 251-279(0.30)
gnl UG Hs#S1728504	0.78	1	198-224(0.78)
gnl UG Hs#S2294610	2.47	5	439-465(1.82) 618-644(0.33) 767-790(2.47) 1969-1994(0.50) 2303-2328(1.72)
gnl UG Hs#S5978621	1.68	2	762-788(0.50) 841-868(1.68)
gnl UG Hs#S5516690	0.65	2	459-486(0.14) 1175-1202(0.65)
gnl UG Hs#S1728534	1.92	1	1422-1448(1.92)
gnl UG Hs#S3543457	0.69	1	566-592(0.69)
gnl UG Hs#S2139296	1.21	1	777-803(1.21)
gnl UG Hs#S1727823	2.04	2	179-206(1.61) 449-474(2.04)
gnl UG Hs#S2293441	1.62	3	1941-1967(1.62) 1977-2002(0.57) 2422-2450(0.49)
gnl UG Hs#S2139928	0.69	2	461-486(0.69) 497-525(0.01)
gnl UG Hs#S1726514	0.36	1	375-400(0.36)
gnl UG Hs#S3438876	0.72	2	289-315(0.72) 449-474(0.58)
gnl UG Hs#S1729910	0.76	4	757-785(0.35) 856-882(0.76) 963-988(0.04) 1323-1349(0.69)
gnl UG Hs#S1732267	0.94	1	526-553(0.94)
gnl UG Hs#S4396078	2.55	2	869-894(1.43) 928-951(2.55)
gnl UG Hs#S7111249	1.17	1	343-368(1.17)
gnl UG Hs#S4819973	1.33	1	487-512(1.33)
gnl UG Hs#S2293394	1.93	2	110-136(1.93) 1364-1389(0.62)
gnl UG Hs#S4809475	0.4	1	1306-1332(0.40)
gnl UG Hs#S2293893	1.78	1	1526-1553(1.78)
gnl UG Hs#S4618095	0.46	2	262-287(0.46) 546-571(0.26)
gnl UG Hs#S1726627	1.53	1	1092-1117(1.53)
gnl UG Hs#S4807869	0.59	1	193-219(0.59)
gnl UG Hs#S4001849	1.47	1	594-619(1.47)
gnl UG Hs#S1732204	0.62	1	785-808(0.62)
gnl UG Hs#S3547211	4.78	6	1456-1482(1.75) 1483-1508(2.43) 2672-2698(1.69) 3038-3063(0.65) 3168-3193(4.78) 3657-3682(3.79)
gnl UG Hs#S4809409	5.21	1	239-264(5.21)
gnl UG Hs#S1729778	1.07	2	426-450(1.07) 926-951(0.21)
gnl UG Hs#S4807868	0.23	1	91-116(0.23)
gnl UG Hs#S3333495	3.59	2	834-859(2.68) 2060-2083(3.59)
gnl UG Hs#S1727164	0.27	1	1118-1141(0.27)
gnl UG Hs#S10832206	2.13	1	616-644(2.13)
gnl UG Hs#S1731008	3.66	7	608-631(0.81) 653-678(2.89) 734-759(0.53) 1349-1375(0.98) 1966-1991(1.20) 2022-2049(3.66) 2122-2148(0.97)
gnl UG Hs#S1726613	1.94	4	697-722(1.24) 809-834(1.94) 2325-2351(0.72) 3355-3380(1.20)
gnl UG Hs#S3438760	0.23	1	919-947(0.23)
gnl UG Hs#S1729954	2.18	1	103-129(2.18)
gnl UG Hs#S2138949	1.74	2	161-186(1.74) 287-312(1.50)
gnl UG Hs#S1729369	4.94	5	435-460(3.13) 916-941(0.39) 1455-1481(0.66) 1894-1919(0.04) 2015-2041(4.94)
gnl UG Hs#S1731865	1.67	3	72-98(1.67) 130-155(1.08) 186-214(0.56)
gnl UG Hs#S6664665	2.78	4	2751-2778(0.04) 2825-2850(2.78) 3307-3332(0.58) 3610-3636(0.91)
gnl UG Hs#S1731263	1.99	1	56-84(1.99)
gnl UG Hs#S1731270	1.46	2	102-127(0.89) 2119-2144(1.46)

gnl UG Hs#S3439164	3.62	2 235-260(3.62) 540-568(0.08)
gnl UG Hs#S4820674	2.08	7 100-126(0.56) 182-207(1.91) 743-768(1.76) 1214-1239(2.04) 1446-1471(1.04) 2075-2103(0.81) 2649-2674(2.08)
gnl UG Hs#S4828946	1.39	4 1185-1210(0.72) 1524-1549(1.39) 1556-1579(0.30) 2952-2980(0.07)
gnl UG Hs#S998753	1.14	1 210-235(1.14)
gnl UG Hs#S3220184	0.58	1 765-790(0.58)
gnl UG Hs#S10831740	3.17	2 459-484(1.82) 1002-1028(3.17)
gnl UG Hs#S1727945	2.17	1 1099-1124(2.17)
gnl UG Hs#S11046685	4.3	5 181-206(4.13) 889-914(0.04) 1004-1029(0.53) 1336-1361(4.30) 2208-2233(1.53)
gnl UG Hs#S2140238	5.01	6 862-887(2.60) 1232-1257(2.36) 1290-1316(1.21) 1545-1571(5.01) 1727-1752(0.72) 1771-1799(2.08)
gnl UG Hs#S2293671	1.85	2 1441-1470(1.85) 1629-1653(1.10)
gnl UG Hs#S11046726	1.51	1 977-1005(1.51)
gnl UG Hs#S14273108	0.04	1 888-913(0.04)
gnl UG Hs#S5979199	5.04	6 203-228(1.98) 785-810(0.04) 909-934(0.34) 1061-1089(0.26) 1244-1269(5.04) 1477-1500(2.95)
gnl UG Hs#S12743754	3.5	2 1397-1422(1.63) 1525-1550(3.50)
gnl UG Hs#S4044940	0.26	1 468-493(0.26)
gnl UG Hs#S2293697	1.34	3 2149-2177(0.42) 2252-2277(1.34) 2302-2327(0.53)
gnl UG Hs#S2293490	0.91	1 1158-1184(0.91)
gnl UG Hs#S3619103	0.49	1 149-177(0.49)
gnl UG Hs#S1729082	2.85	1 352-377(2.85)
gnl UG Hs#S4546302	2.26	3 48-72(2.26) 8-34(1.36) 248-276(0.30)
gnl UG Hs#S4807907	0.5	1 404-428(0.50)
gnl UG Hs#S4809562	2.63	2 175-201(1.24) 313-338(2.63)
gnl UG Hs#S3973109	1.81	2 172-197(1.81) 205-230(0.46)
gnl UG Hs#S3814691	1.62	1 800-826(1.62)
gnl UG Hs#S1731966	0.94	2 178-203(0.94) 287-313(0.72)
gnl UG Hs#S4816552	1.94	3 212-238(1.04) 595-621(1.94) 1054-1079(0.17)
gnl UG Hs#S10832741	0.14	1 814-839(0.14)
gnl UG Hs#S1729155	2.04	2 746-771(2.04) 810-834(0.91)
gnl UG Hs#S2294290	0.04	1 540-565(0.04)
gnl UG Hs#S11046671	0.77	2 52-79(0.77) 170-195(0.50)
gnl UG Hs#S1729816	0.3	1 354-380(0.30)
gnl UG Hs#S1728303	0.36	1 606-633(0.36)
gnl UG Hs#S5978611	1.11	3 329-355(0.84) 1260-1286(0.17) 1373-1398(1.11)
gnl UG Hs#S3220043	4.4	3 430-456(0.39) 732-758(4.40) 1194-1218(0.23)
gnl UG Hs#S3322110	0.62	1 69-94(0.62)
gnl UG Hs#S2294249	0.71	2 289-317(0.71) 351-379(0.40)
gnl UG Hs#S1730136	0.07	1 146-171(0.07)
gnl UG Hs#S1727358	0.94	1 208-233(0.94)
gnl UG Hs#S2294639	0.2	1 1398-1425(0.20)
gnl UG Hs#S2294548	4.42	2 519-544(0.89) 615-644(4.42)
gnl UG Hs#S4807979	2.53	6 561-587(2.08) 1250-1275(0.48) 1410-1435(2.53) 1629-1654(0.21) 1767-1792(0.80) 2515-2539(0.99)
gnl UG Hs#S1727607	0.5	1 1050-1076(0.50)
gnl UG Hs#S5978536	0.94	4 137-163(0.14) 583-611(0.94) 763-791(0.17) 910-936(0.33)
gnl UG Hs#S2140583	2.62	2 95-121(2.62) 164-189(1.80)
gnl UG Hs#S4284751	0.84	1 124-149(0.84)
gnl UG Hs#S7111748	0.65	1 128-153(0.65)
gnl UG Hs#S14802293	6.79	3 162-188(0.49) 218-246(2.88) 474-499(6.79)
gnl UG Hs#S15636669	1.13	2 61-86(1.13) 93-121(0.07)
gnl UG Hs#S2139853	3.2	6 2-28(2.11) 52-78(3.20) 265-292(1.74) 424-448(1.05) 535-560(3.17) 1233-1259(0.58)
gnl UG Hs#S1730964	3.49	3 478-505(0.17) 980-1006(3.49) 1040-1065(0.72)
gnl UG Hs#S15632409	0.58	2 1415-1440(0.11) 1482-1508(0.58)
gnl UG Hs#S1824554	1.2	1 195-220(1.20)
gnl UG Hs#S4554269	2.46	2 449-474(2.46) 548-573(0.72)
gnl UG Hs#S1727105	0.21	1 63-89(0.21)

gnl UG Hs#S3438751	0.26	1	1065-1090(0.26)
gnl UG Hs#S2293562	0.23	1	539-565(0.23)
gnl UG Hs#S4546062	1.4	1	536-564(1.40)
gnl UG Hs#S2294265	3.11	6	330-358(0.81) 618-644(0.30) 681-706(1.13) 713-738(3.11) 1721-1747(0.18) 2046-2071(0.21)
gnl UG Hs#S5978416	0.2	1	67-92(0.20)
gnl UG Hs#S7110390	1.3	3	366-393(1.30) 399-427(0.30) 564-590(0.49)
gnl UG Hs#S1729965	2.17	4	279-305(1.88) 667-690(2.17) 1426-1449(1.06) 1548-1573(0.98)
gnl UG Hs#S1728210	0.23	1	239-264(0.23)
gnl UG Hs#S2294204	6.18	1	1899-1925(6.18)
gnl UG Hs#S10831766	1.72	1	117-142(1.72)
gnl UG Hs#S1729069	1.2	1	714-742(1.20)
gnl UG Hs#S1824527	3.91	9	134-161(0.27) 280-305(2.75) 355-383(1.66) 1227-1253(2.49) 1377-1401(1.78) 1504-1530(3.91) 1790-1815(0.91) 1899-1922(0.43) 2171-2197(0.62)
gnl UG Hs#S5978579	0.43	2	32-57(0.43) 200-225(0.20)
gnl UG Hs#S1730809	3.72	1	159-184(3.72)
gnl UG Hs#S1729909	1.26	1	754-782(1.26)
gnl UG Hs#S2294183	2.63	2	1016-1042(2.63) 1290-1318(0.39)
gnl UG Hs#S2139694	6.24	2	35-61(0.17) 160-188(6.24)
gnl UG Hs#S1729806	0.63	2	83-109(0.60) 278-303(0.63)
gnl UG Hs#S2329524	3.04	6	64-90(1.64) 150-176(1.84) 228-254(0.62) 328-354(0.50) 514-539(0.17) 577-603(3.04)
gnl UG Hs#S3619190	0.11	1	170-195(0.11)
gnl UG Hs#S3438767	2.62	3	236-260(2.62) 750-774(1.74) 908-934(0.43)
gnl UG Hs#S3814579	0.17	1	82-107(0.17)
gnl UG Hs#S2139663	2.98	4	25-51(0.57) 252-277(1.50) 1442-1469(2.98) 1556-1581(0.53)
gnl UG Hs#S1729892	0.34	1	470-495(0.34)
gnl UG Hs#S1727150	0.61	1	77-103(0.61)
gnl UG Hs#S2293738	0.62	1	1229-1255(0.62)
gnl UG Hs#S2293862	0.72	1	234-259(0.72)
gnl UG Hs#S1731787	2.27	3	498-524(2.27) 1340-1368(0.30) 1416-1442(1.69)
gnl UG Hs#S3619000	2.66	7	261-288(0.15) 747-774(2.66) 821-849(0.66) 1044-1070(0.25) 1733-1758(0.21) 1894-1919(2.20) 2378-2404(2.21)
gnl UG Hs#S2138727	0.37	1	261-287(0.37)
gnl UG Hs#S2140072	0.33	1	228-256(0.33)
gnl UG Hs#S1726652	4.04	3	306-331(4.04) 343-369(2.67) 403-428(2.72)
gnl UG Hs#S4820821	3.07	3	1051-1078(0.11) 1421-1446(0.11) 1700-1725(3.07)
gnl UG Hs#S5978429	1.5	2	154-181(0.03) 297-322(1.50)
gnl UG Hs#S3547246	5.11	1	1553-1578(5.11)
gnl UG Hs#S3355476	0.57	3	326-354(0.30) 573-598(0.57) 610-635(0.30)
gnl UG Hs#S5978565	1.5	4	82-107(0.57) 505-531(1.50) 731-757(1.20) 1073-1098(0.30)
gnl UG Hs#S3905475	3.01	4	175-201(1.84) 580-605(0.46) 907-933(0.58) 1394-1420(3.01)
gnl UG Hs#S15635494	2.4	3	639-664(2.40) 670-696(1.82) 1027-1055(0.02)
gnl UG Hs#S4623171	0.14	2	835-863(0.14) 1372-1400(0.07)
gnl UG Hs#S5931202	2.72	1	792-819(2.72)
gnl UG Hs#S4630852	0.18	1	210-235(0.18)
gnl UG Hs#S1730218	1.75	1	21-46(1.75)
gnl UG Hs#S1726872	1.82	1	303-329(1.82)
gnl UG Hs#S15632306	1.98	1	248-274(1.98)
gnl UG Hs#S1731099	0.34	2	172-198(0.34) 229-254(0.26)
gnl UG Hs#S1728587	0.76	2	16-42(0.21) 117-142(0.76)
gnl UG Hs#S1726978	1.48	3	43-69(1.48) 1147-1170(0.47) 1281-1306(0.15)
gnl UG Hs#S1727985	3.3	2	2776-2802(3.30) 3393-3420(1.36)
gnl UG Hs#S1729576	0.26	1	2375-2402(0.26)
gnl UG Hs#S2293607	0.82	1	928-952(0.82)
gnl UG Hs#S2139082	1.85	1	297-325(1.85)
gnl UG Hs#S5931214	4.08	6	389-414(0.43) 487-514(0.04) 521-546(1.53) 782-807(2.79) 854-879(0.87) 917-943(4.08)
gnl UG Hs#S5931250	0.14	1	111-136(0.14)

gnl UG Hs#S3940253	2.01	15 37-62(0.14) 84-109(0.23) 1909-1934(0.91) 2359-2384(1.68) 2875-2900(2.01) 3366-3394(1.03) 3775-3800(0.48) 3864-3890(0.58) 3979-4005(0.08) 4894-4919(1.33) 5051-5077(0.24) 5241-5266(0.14)
gnl UG Hs#S1824536	0.21	1 502-526(0.21)
gnl UG Hs#S3603817	2.08	1 441-467(2.08)
gnl UG Hs#S2139525	2.04	1 2299-2324(2.04)
gnl UG Hs#S3990786	1.55	2 291-316(0.90) 1207-1234(1.55)
gnl UG Hs#S2140440	2.07	4 219-247(0.15) 335-360(0.43) 374-399(2.07) 463-488(0.72)
gnl UG Hs#S3782061	2.86	1 28-54(2.86)
gnl UG Hs#S4545892	0.36	2 98-123(0.36) 286-311(0.20)
gnl UG Hs#S2294515	0.94	2 498-523(0.94) 549-577(0.88)
gnl UG Hs#S4817007	2.71	3 645-673(0.30) 1489-1517(2.71) 1564-1588(0.11)
gnl UG Hs#S1969057	3.3	1 2280-2306(3.30)
gnl UG Hs#S1727299	0.76	3 158-186(0.23) 1672-1700(0.76) 2231-2256(0.07)
gnl UG Hs#S1730975	2.3	1 508-533(2.30)
gnl UG Hs#S3219031	0.82	5 300-325(0.23) 352-377(0.32) 454-479(0.30) 747-775(0.56) 838-863(0.82)
gnl UG Hs#S1728902	1.23	3 114-142(1.23) 430-456(0.26) 521-546(0.46)
gnl UG Hs#S4284565	4.2	7 232-260(2.13) 1407-1432(1.60) 1861-1885(4.20) 1916-1941(0.26) 2221-2247(0.58) 2736-2759(0.08) 2902-2927(1.47)
gnl UG Hs#S1569375	4.51	4 89-115(4.51) 277-302(1.87) 380-405(2.48) 721-746(0.23)
gnl UG Hs#S3814599	3.4	1 649-675(3.40)
gnl UG Hs#S2139786	2.58	3 366-391(0.26) 763-789(0.08) 846-871(2.58)
gnl UG Hs#S1569310	1.42	2 3225-3253(1.42) 3475-3500(1.25)
gnl UG Hs#S6682826	5.21	3 1335-1361(3.82) 1362-1387(5.21) 1557-1581(1.32)
gnl UG Hs#S1824286	4.85	2 99-124(4.85) 149-175(3.03)
gnl UG Hs#S4831108	1.69	2 81-107(1.69) 108-134(0.91)
gnl UG Hs#S3814531	1.82	5 137-163(0.17) 590-615(0.43) 900-924(1.53) 935-960(1.50) 1139-1165(1.82)
gnl UG Hs#S1730050	0.04	1 336-362(0.04)
gnl UG Hs#S7111394	3.52	6 596-621(3.52) 651-676(0.50) 785-811(1.60) 1242-1270(0.20) 1590-1616(2.10) 1772-1798(3.01)
gnl UG Hs#S1971587	0.17	1 920-946(0.17)
gnl UG Hs#S4546012	2.89	1 349-374(2.89)
gnl UG Hs#S1824452	1.77	2 383-411(0.40) 1213-1239(1.77)
gnl UG Hs#S1728104	2.78	1 1508-1533(2.78)
gnl UG Hs#S11046543	3.73	4 431-457(3.73) 647-670(0.30) 904-930(0.54) 1007-1034(0.41)
gnl UG Hs#S7112758	2.62	1 405-430(2.62)
gnl UG Hs#S2139019	1.08	2 672-697(0.78) 718-746(1.08)
gnl UG Hs#S3987292	1.4	4 316-342(1.23) 793-821(0.65) 1390-1418(0.42) 1944-1969(1.40)
gnl UG Hs#S2294549	1.04	1 1538-1564(1.04)
gnl UG Hs#S1728926	1.08	2 1401-1427(1.08) 1446-1471(0.58)
gnl UG Hs#S5978677	2.5	4 335-360(0.04) 687-712(2.50) 1005-1031(1.65) 1914-1939(0.13)
gnl UG Hs#S3219650	5.3	4 648-676(0.17) 1044-1070(1.40) 1119-1144(5.30) 1439-1463(0.56)
gnl UG Hs#S3603171	2.04	1 145-171(2.04)
gnl UG Hs#S4807744	1.24	1 367-392(1.24)
gnl UG Hs#S2293434	3.65	3 770-796(1.94) 1044-1069(3.65) 1922-1948(1.08)
gnl UG Hs#S1730081	1.87	1 137-161(1.87)
gnl UG Hs#S3219988	0.01	1 817-843(0.01)
gnl UG Hs#S1728138	0.78	2 641-669(0.21) 786-811(0.78)
gnl UG Hs#S1729669	0.65	1 313-338(0.65)
gnl UG Hs#S2139641	0.19	1 1384-1408(0.19)
gnl UG Hs#S2293963	0.08	1 274-300(0.08)
gnl UG Hs#S4396070	2.04	6 259-282(0.73) 1752-1777(0.40) 2952-2977(0.55) 2991-3017(2.01) 3018-3042(2.04) 3494-3523(0.40)
gnl UG Hs#S4825665	4.43	10 208-236(1.40) 905-929(1.22) 1341-1366(0.82) 1594-1621(0.88) 1672-1697(1.41) 2095-2120(0.83) 2765-2790(0.04) 2990-3015(4.43) 3259-3284(2.97) 3341-3366(2.21)
gnl UG Hs#S15631582	0.81	1 2124-2151(0.81)
gnl UG Hs#S4824755	2.46	9 68-96(0.07) 153-178(0.72) 543-569(0.89) 1607-1632(0.72) 2109-2134(2.46) 2366-2392(1.04) 2573-2599(0.07) 2611-2637(1.17) 2639-2664(1.33)
gnl UG Hs#S4631511	1.17	2 1207-1232(1.17) 1307-1332(0.40)
gnl UG Hs#S14273038	1.24	1 324-347(1.24)
gnl UG Hs#S12744109	2.94	3 1552-1577(1.57) 1587-1612(0.84) 1634-1659(2.94)

gnl UG Hs#S1726926	1.72	1 179-203(1.72)
gnl UG Hs#S3973042	0.71	2 190-217(0.50) 625-653(0.71)
gnl UG Hs#S4807946	1.79	2 134-159(0.30) 305-331(1.79)
gnl UG Hs#S2293413	1.3	3 803-831(0.08) 1358-1383(0.53) 1615-1641(1.30)
gnl UG Hs#S2293233	2.38	1 370-397(2.38)
gnl UG Hs#S1730414	0.7	1 1982-2006(0.70)
gnl UG Hs#S14272713	4.87	8 633-658(4.87) 674-697(1.28) 947-972(3.89) 987-1010(2.31) 1023-1049(3.04) 1246-1271(0.30) 1303-1328(2.78) 1476-1504(1.81)
gnl UG Hs#S14802411	0.46	1 147-172(0.46)
gnl UG Hs#S2293381	0.67	4 372-396(0.07) 416-442(0.30) 497-522(0.67) 921-946(0.17)
gnl UG Hs#S2293916	1.2	1 90-116(1.20)
gnl UG Hs#S1729253	1.2	2 206-231(0.11) 520-545(1.20)
gnl UG Hs#S1726884	0.33	1 336-362(0.33)
gnl UG Hs#S5978852	1.63	3 590-616(1.63) 1469-1494(1.53) 2544-2570(0.69)
gnl UG Hs#S1730392	3.3	1 167-192(3.30)
gnl UG Hs#S1728304	1.6	1 11-36(1.60)
gnl UG Hs#S4620226	2.21	3 929-954(2.21) 1273-1298(1.82) 1615-1643(0.42)
gnl UG Hs#S1727924	5.04	2 753-778(5.04) 2275-2301(0.59)
gnl UG Hs#S2294200	6.18	1 1899-1925(6.18)
gnl UG Hs#S3547258	3.08	3 565-590(1.98) 596-622(3.08) 782-808(0.86)
gnl UG Hs#S2293925	0.94	1 442-467(0.94)
gnl UG Hs#S12744111	3.72	3 699-723(0.40) 1085-1110(3.72) 1728-1754(1.62)
gnl UG Hs#S1824337	0.81	1 724-749(0.81)
gnl UG Hs#S7112489	2.27	1 762-788(2.27)
gnl UG Hs#S1824358	1.48	2 786-811(0.78) 1024-1049(1.48)
gnl UG Hs#S3782171	0.22	1 175-200(0.22)
gnl UG Hs#S14813041	0.17	1 343-369(0.17)
gnl UG Hs#S15639579	7.43	2 913-938(7.43) 1584-1612(0.56)
gnl UG Hs#S3439165	0.94	2 100-124(0.18) 2695-2721(0.94)
gnl UG Hs#S5978485	5.73	10 154-177(1.81) 361-384(0.53) 636-661(2.50) 907-932(3.36) 1462-1487(1.89) 1831-1860(1.30) 1929-1954(2.90) 2067-2095(1.30) 2264-2288(5.73) 2522-2547(2.04)
gnl UG Hs#S1729093	1.91	1 36-62(1.91)
gnl UG Hs#S4396121	2.69	3 882-905(0.62) 947-974(2.69) 1113-1139(0.34)
gnl UG Hs#S4631285	3.19	3 105-130(0.13) 156-182(3.19) 1089-1114(2.57)
gnl UG Hs#S4392126	1.58	2 886-912(0.76) 937-962(1.58)
gnl UG Hs#S2139170	4.29	1 1441-1466(4.29)
gnl UG Hs#S1729199	2.3	6 337-362(1.11) 534-559(2.30) 561-586(0.36) 865-890(1.46) 1542-1568(1.50) 1584-1611(0.24)
gnl UG Hs#S1731044	0.91	2 232-257(0.91) 417-442(0.33)
gnl UG Hs#S2140009	0.98	1 283-309(0.98)
gnl UG Hs#S1730254	1.08	1 895-921(1.08)
gnl UG Hs#S7112283	0.91	1 4126-4151(0.91)
gnl UG Hs#S1730967	1.4	1 136-161(1.40)
gnl UG Hs#S1728185	0.67	1 127-152(0.67)
gnl UG Hs#S1730820	1.23	1 30-56(1.23)
gnl UG Hs#S5979204	1.91	2 201-226(1.46) 235-261(1.91)
gnl UG Hs#S10832656	0.38	1 1521-1546(0.38)
gnl UG Hs#S4825471	2.58	3 1049-1074(2.58) 1641-1666(1.23) 1926-1952(2.13)
gnl UG Hs#S1729454	1.64	5 126-151(0.50) 214-241(1.39) 411-436(1.57) 577-602(0.16) 682-705(1.64)
gnl UG Hs#S5860317	3.46	1 1183-1208(3.46)
gnl UG Hs#S2139954	0.76	3 253-280(0.62) 878-904(0.76) 1168-1193(0.17)
gnl UG Hs#S2293279	1.8	2 469-494(0.80) 1127-1152(1.80)
gnl UG Hs#S3547093	2.75	1 916-942(2.75)
gnl UG Hs#S1727193	0.89	1 5-28(0.89)
gnl UG Hs#S1730301	1.27	2 747-772(0.40) 795-821(1.27)
gnl UG Hs#S4813036	0.57	1 1244-1270(0.57)
gnl UG Hs#S2294071	1.29	2 60-88(0.97) 432-457(1.29)

gnl UG Hs#S2293772	0.04	1	762-788(0.04)
gnl UG Hs#S2293435	3.15	4	976-1002(0.90) 1224-1250(3.15) 1261-1286(1.78) 1337-1362(1.04)
gnl UG Hs#S1728822	0.65	1	253-279(0.65)
gnl UG Hs#S2139192	2.08	3	408-436(0.48) 643-668(0.46) 678-703(2.08)
gnl UG Hs#S4392401	1.46	1	1158-1183(1.46)
gnl UG Hs#S1971573	3.07	2	914-938(3.07) 1291-1317(2.99)
gnl UG Hs#S4807672	2.98	4	50-75(0.43) 974-1002(0.18) 1364-1389(0.85) 1394-1419(2.98)
gnl UG Hs#S1729660	2.27	1	135-161(2.27)
gnl UG Hs#S2138948	1.5	1	1978-2003(1.50)
gnl UG Hs#S3603080	4.36	1	1824-1849(4.36)
gnl UG Hs#S14272913	3.63	1	725-750(3.63)
gnl UG Hs#S3439078	2.17	6	69-94(2.17) 360-383(0.17) 474-502(0.81) 519-545(1.82) 550-578(0.30) 959-985(0.08)
gnl UG Hs#S4618634	1.68	3	1190-1217(1.15) 1509-1534(1.68) 1918-1944(0.36)
gnl UG Hs#S2138998	2.25	2	539-562(2.25) 805-830(1.68)
gnl UG Hs#S1729872	0.81	4	26-53(0.16) 261-286(0.04) 627-657(0.81) 745-771(0.40)
gnl UG Hs#S2294266	2.19	1	54-79(2.19)
gnl UG Hs#S2139420	2.45	2	664-689(0.21) 694-718(2.45)
gnl UG Hs#S2140328	1.56	3	2511-2536(0.03) 3273-3302(0.97) 5139-5167(1.56)
gnl UG Hs#S1730308	1.72	1	619-644(1.72)
gnl UG Hs#S3987716	0.57	2	345-371(0.57) 840-865(0.11)
gnl UG Hs#S1730398	1.04	1	508-533(1.04)
gnl UG Hs#S3438718	2.04	4	11-36(1.10) 57-83(2.04) 2334-2359(0.30) 2539-2565(1.69)
gnl UG Hs#S2139203	0.67	2	1358-1385(0.26) 1478-1503(0.67)
gnl UG Hs#S3438118	1.5	2	2500-2523(0.01) 3023-3049(1.50)
gnl UG Hs#S5931019	1.46	4	584-610(0.13) 873-898(1.46) 965-990(0.50) 1147-1174(0.72)
gnl UG Hs#S2293581	2.33	4	169-193(1.04) 266-290(1.77) 634-659(0.14) 781-806(2.33)
gnl UG Hs#S4630829	1.84	2	69-94(1.84) 132-158(0.54)
gnl UG Hs#S15631469	2.21	5	659-684(2.21) 943-969(1.40) 1097-1121(0.09) 1185-1210(1.98) 1301-1326(0.25)
gnl UG Hs#S1729848	0.04	1	468-493(0.04)
gnl UG Hs#S1727224	3.26	1	120-146(3.26)
gnl UG Hs#S1244968	0.3	1	911-937(0.30)
gnl UG Hs#S1730465	1.12	1	513-538(1.12)
gnl UG Hs#S3218952	0.49	1	544-571(0.49)
gnl UG Hs#S3987985	2.89	3	363-386(0.11) 542-570(0.44) 667-693(2.89)
gnl UG Hs#S1731914	2.09	4	398-424(1.50) 3441-3469(2.09) 3682-3710(0.03) 4786-4811(0.48)
gnl UG Hs#S3219183	5.52	8	903-929(1.23) 1110-1136(1.50) 1285-1313(5.52) 1686-1711(1.20) 2586-2612(4.83) 3319-3343(1.15) 3454-3479(0.40) 3618-3643(1.65)
gnl UG Hs#S3219933	1.14	1	1050-1075(1.14)
gnl UG Hs#S1728077	2.34	1	408-434(2.34)
gnl UG Hs#S1727524	0.5	3	127-154(0.24) 288-313(0.14) 342-367(0.50)
gnl UG Hs#S3438853	0.98	2	48-73(0.32) 1005-1030(0.98)
gnl UG Hs#S2139449	3.08	2	442-468(3.08) 2249-2275(0.30)
gnl UG Hs#S15634006	2.95	1	872-897(2.95)
gnl UG Hs#S4818047	0.65	1	1123-1148(0.65)
gnl UG Hs#S5930814	0.18	1	719-746(0.18)
gnl UG Hs#S2293587	0.11	1	316-341(0.11)
gnl UG Hs#S1731432	1.27	1	319-345(1.27)
gnl UG Hs#S14802402	0.94	2	670-695(0.94) 786-812(0.02)
gnl UG Hs#S1726243	0.91	1	80-108(0.91)
gnl UG Hs#S2138733	0.24	1	299-325(0.24)
gnl UG Hs#S3619302	5.95	1	282-307(5.95)
gnl UG Hs#S1727011	0.2	2	251-277(0.14) 360-385(0.20)
gnl UG Hs#S3817938	2.97	1	19-44(2.97)
gnl UG Hs#S2139533	1.6	2	3166-3192(1.60) 3387-3413(1.01)
gnl UG Hs#S4807687	1.26	2	1759-1785(1.26) 2005-2035(0.45)

gnl UG Hs#S11046580	1.97	2 898-923(0.57) 1509-1534(1.97)
gnl UG Hs#S2139854	2.2	2 7-32(2.20) 133-159(0.37)
gnl UG Hs#S2139003	1.4	2 978-1002(1.40) 1108-1134(1.08)
gnl UG Hs#S2138896	2.75	1 62-87(2.75)
gnl UG Hs#S14812306	0.17	1 305-330(0.17)
gnl UG Hs#S3991628	0.62	1 2168-2194(0.62)
gnl UG Hs#S15643757	1.52	6 278-303(0.26) 667-695(1.18) 830-858(1.52) 956-981(1.11) 1146-1172(0.98) 1341-1368(0.88)
gnl UG Hs#S12743819	0.14	1 264-289(0.14)
gnl UG Hs#S4620930	0.68	1 481-506(0.68)
gnl UG Hs#S3218906	3.33	2 475-503(3.33) 649-672(0.75)
gnl UG Hs#S3439067	1.32	1 662-688(1.32)
gnl UG Hs#S1727222	1.92	1 1154-1180(1.92)
gnl UG Hs#S3219361	2.3	3 693-719(0.29) 776-802(2.30) 888-916(0.84)
gnl UG Hs#S4807637	0.89	1 1526-1552(0.89)
gnl UG Hs#S3219826	0.56	4 599-625(0.27) 1002-1030(0.23) 1318-1344(0.30) 1415-1443(0.56)
gnl UG Hs#S4812637	0.15	1 46-71(0.15)
gnl UG Hs#S4631311	3.49	5 250-276(3.49) 763-786(1.92) 1202-1227(2.75) 2008-2031(2.95) 2049-2074(0.91)
gnl UG Hs#S2329518	3.72	4 445-471(2.56) 857-882(0.50) 1471-1496(3.72) 1603-1631(2.84)
gnl UG Hs#S4545968	0.23	1 106-130(0.23)
gnl UG Hs#S4435363	1.72	1 344-372(1.72)
gnl UG Hs#S10832085	2.65	4 237-264(2.65) 2188-2216(2.47) 4203-4226(0.94) 4341-4366(0.82)
gnl UG Hs#S4613702	0.72	1 821-846(0.72)
gnl UG Hs#S1727630	2.97	5 598-623(2.97) 636-664(0.62) 1418-1444(1.08) 1454-1479(2.37) 1787-1815(2.23)
gnl UG Hs#S2140308	1.1	1 139-164(1.10)
gnl UG Hs#S3219894	3.67	3 418-443(1.17) 549-575(3.67) 727-755(0.62)
gnl UG Hs#S2140409	1.47	7 190-219(1.23) 478-503(0.24) 908-935(0.81) 961-987(1.47) 1195-1220(1.11) 1671-1697(0.13) 1755-1780(1.20)
gnl UG Hs#S1726847	2.53	2 144-169(2.53) 341-367(0.59)
gnl UG Hs#S7111565	1.3	2 110-135(1.30) 325-350(0.43)
gnl UG Hs#S1731299	2.33	3 349-376(0.98) 912-937(2.33) 1872-1898(1.87)
gnl UG Hs#S4815177	3.78	6 652-677(0.22) 736-761(3.78) 1783-1808(0.07) 2066-2092(1.59) 2575-2602(0.88) 3096-3122(0.40)
gnl UG Hs#S5978409	1.98	3 751-776(0.75) 1311-1335(0.27) 1535-1560(1.98)
gnl UG Hs#S1728349	2.07	2 226-251(1.30) 644-669(2.07)
gnl UG Hs#S1730941	4.53	1 97-122(4.53)
gnl UG Hs#S1731200	0.65	1 1475-1501(0.65)
gnl UG Hs#S5978524	2.68	2 1004-1029(0.16) 1719-1744(2.68)
gnl UG Hs#S1824362	9.17	2 320-345(9.17) 636-664(0.13)
gnl UG Hs#S1728935	0.34	2 835-861(0.34) 872-899(0.27)
gnl UG Hs#S1729190	5.11	3 1614-1639(0.58) 2096-2121(5.11) 3384-3409(1.30)
gnl UG Hs#S1732378	0.47	1 446-471(0.47)
gnl UG Hs#S1729410	3.19	3 1265-1291(2.17) 1389-1415(1.27) 1432-1457(3.19)
gnl UG Hs#S2139577	0.83	1 1026-1052(0.83)
gnl UG Hs#S4615447	1.5	1 288-313(1.50)
gnl UG Hs#S3355459	0.72	1 916-941(0.72)
gnl UG Hs#S1732276	1.23	4 508-534(1.01) 986-1011(0.30) 1092-1120(0.40) 1363-1391(1.23)
gnl UG Hs#S3355643	2.82	1 237-263(2.82)
gnl UG Hs#S1727018	1.79	8 554-579(1.04) 647-675(0.98) 891-916(1.79) 1121-1146(0.46) 1171-1196(0.20) 1453-1478(1.53) 1929-1954(0.59) 2776-2801(0.89)
gnl UG Hs#S2140310	0.04	1 73-100(0.04)
gnl UG Hs#S2294300	0.78	1 1020-1045(0.78)
gnl UG Hs#S3973045	3.43	1 50-75(3.43)
gnl UG Hs#S3438182	0.21	1 1283-1308(0.21)
gnl UG Hs#S15640830	0.94	1 540-565(0.94)
gnl UG Hs#S4630974	0.98	1 367-392(0.98)
gnl UG Hs#S1728601	1.3	2 362-388(0.49) 450-475(1.30)
gnl UG Hs#S4620413	3.62	3 503-528(0.91) 1406-1431(3.62) 1506-1532(2.67)

gnl UG Hs#S4807845	2.08	9 26-51(0.14) 56-79(0.20) 89-114(0.48) 144-169(0.30) 503-530(1.64) 670-695(1.13) 711-737(1.82) 985-1011(2.08) 1202-1231(0.73)
gnl UG Hs#S4045158	0.23	1 299-324(0.23)
gnl UG Hs#S4807974	1.66	1 808-833(1.66)
gnl UG Hs#S4824935	3.77	4 882-906(3.77) 1112-1137(2.30) 1777-1802(0.68) 2462-2487(0.53)
gnl UG Hs#S1824263	3.98	1 326-351(3.98)
gnl UG Hs#S3322128	0.28	1 569-594(0.28)
gnl UG Hs#S1727598	1.72	4 239-265(0.08) 594-620(1.72) 697-723(0.08) 1102-1129(0.33)
gnl UG Hs#S4829506	0.24	2 1170-1195(0.24) 1750-1773(0.18)
gnl UG Hs#S11046594	3.49	5 211-236(3.49) 304-330(0.39) 957-984(0.97) 1101-1126(1.30) 1691-1718(1.99)
gnl UG Hs#S4545962	2.26	4 509-535(0.59) 551-575(2.26) 608-631(0.41) 680-707(1.63)
gnl UG Hs#S1731564	3.69	5 435-460(0.07) 592-617(2.17) 1227-1252(3.69) 1314-1342(2.62) 2220-2245(2.13)
gnl UG Hs#S2140670	2.33	3 574-602(0.68) 920-946(2.33) 1131-1156(1.50)
gnl UG Hs#S3438441	1.36	1 160-186(1.36)
gnl UG Hs#S2138856	0.76	1 14-40(0.76)
gnl UG Hs#S2294371	0.21	1 494-522(0.21)
gnl UG Hs#S2329523	0.62	1 245-272(0.62)
gnl UG Hs#S15644497	0.58	1 123-148(0.58)
gnl UG Hs#S2293363	0.2	1 773-798(0.20)
gnl UG Hs#S1726479	0.65	4 256-282(0.49) 380-405(0.57) 464-490(0.65) 1640-1665(0.04)
gnl UG Hs#S1728679	4.97	8 123-149(1.83) 173-199(1.36) 507-536(4.97) 752-777(4.57) 903-931(1.88) 1335-1362(1.20) 1382-1408(3.26) 1451-1476(0.72)
gnl UG Hs#S3603137	3.3	1 122-147(3.30)
gnl UG Hs#S14902448	2.18	5 354-382(0.23) 570-595(0.58) 1118-1144(2.18) 1913-1939(0.18) 1941-1966(1.08)
gnl UG Hs#S4284784	0.87	1 375-400(0.87)
gnl UG Hs#S1824321	2.24	2 83-107(0.62) 1107-1135(2.24)
gnl UG Hs#S1730910	2.5	8 137-160(0.91) 303-328(0.15) 681-706(2.50) 885-910(0.49) 1098-1126(0.05) 1696-1721(0.30) 1763-1791(0.08) 1883-1911(1.40)
gnl UG Hs#S2139417	2.23	5 554-579(0.24) 1084-1112(1.23) 1750-1776(2.23) 1896-1921(1.18) 3323-3348(0.58)
gnl UG Hs#S3219840	4.11	2 1325-1350(4.11) 1803-1828(0.50)
gnl UG Hs#S4807962	1.07	2 564-589(0.13) 1144-1172(1.07)
gnl UG Hs#S1731053	1.4	1 516-542(1.40)
gnl UG Hs#S1731769	5.97	8 167-194(1.33) 210-235(1.48) 652-678(3.14) 1542-1568(0.24) 1750-1775(1.87) 2042-2067(5.97) 2079-2109(0.62) 2728-2754(2.25)
gnl UG Hs#S4546020	0.65	3 461-490(0.11) 605-630(0.58) 864-889(0.65)
gnl UG Hs#S2139100	0.79	1 797-822(0.79)
gnl UG Hs#S3355531	1.04	1 539-565(1.04)
gnl UG Hs#S1731653	2.07	15 621-647(1.26) 2163-2188(0.26) 3633-3658(0.89) 4344-4370(0.98) 4630-4655(0.72) 5514-5539(0.19) 5793-5818(0.36) 6400-6425(1.11) 6993-7019(1.17) 7171-7197(0.49) 7914-7940(0.50) 7996-8024
gnl UG Hs#S3220142	2.62	1 544-569(2.62)
gnl UG Hs#S1728052	1.52	4 78-106(0.16) 410-435(0.57) 972-998(1.17) 1003-1027(1.52)
gnl UG Hs#S2139210	2.46	1 1149-1176(2.46)
gnl UG Hs#S4435442	1.5	2 1719-1744(0.80) 1774-1800(1.50)
gnl UG Hs#S1728485	0.58	1 1862-1887(0.58)
gnl UG Hs#S4621490	4.08	1 2346-2372(4.08)
gnl UG Hs#S2139842	1.34	3 573-598(0.98) 1107-1132(0.30) 1551-1576(1.34)
gnl UG Hs#S3814627	0.72	1 447-472(0.72)
gnl UG Hs#S2293717	3.14	1 871-896(3.14)
gnl UG Hs#S4615224	0.4	1 1543-1568(0.40)
gnl UG Hs#S3542627	5.25	6 565-590(0.04) 1579-1605(5.25) 2315-2340(1.53) 2357-2382(1.47) 2521-2546(0.50) 2571-2597(0.76)
gnl UG Hs#S1728691	2.63	3 137-162(2.63) 606-634(0.18) 788-813(0.21)
gnl UG Hs#S2293758	1.9	2 545-570(1.90) 672-698(0.68)
gnl UG Hs#S3219654	1.78	1 543-568(1.78)
gnl UG Hs#S1730712	1.81	3 111-136(0.72) 754-782(1.81) 875-900(0.08)
gnl UG Hs#S3438942	1.2	1 776-801(1.20)
gnl UG Hs#S1824416	1.57	1 101-127(1.57)
gnl UG Hs#S1726868	1.36	1 434-460(1.36)
gnl UG Hs#S2140377	0.5	1 1-27(0.50)
gnl UG Hs#S1731747	0.07	1 339-364(0.07)

gnl UG Hs#S2293696	3.04	3	287-312(3.04) 448-472(0.08) 526-551(1.72)
gnl UG Hs#S2139054	1.42	3	634-657(0.34) 2557-2585(1.42) 2595-2623(0.97)
gnl UG Hs#S1729262	3.47	2	483-508(3.47) 690-715(1.40)
gnl UG Hs#S2293237	1.63	1	328-353(1.63)
gnl UG Hs#S2294285	0.87	1	75-100(0.87)
gnl UG Hs#S3547235	2.89	2	811-837(2.89) 901-925(0.72)
gnl UG Hs#S1726246	0.17	1	240-265(0.17)
gnl UG Hs#S15730180	0.5	1	293-319(0.50)
gnl UG Hs#S7112783	2.98	8	109-134(1.40) 167-192(1.40) 227-252(2.98) 197-222(0.40) 1012-1038(0.08) 1265-1290(1.16) 1598-1623(0.47) 1749-1774(1.63)
gnl UG Hs#S2139542	3.04	4	557-582(0.50) 794-822(0.01) 1653-1678(1.04) 1833-1858(3.04)
gnl UG Hs#S4623571	0.12	1	372-396(0.12)
gnl UG Hs#S1731356	5.53	6	209-234(5.53) 283-311(1.80) 368-396(0.90) 831-856(0.13) 1467-1492(2.40) 1515-1540(0.23)
gnl UG Hs#S14273283	1.1	2	112-137(1.10) 680-705(0.33)
gnl UG Hs#S1727647	1.62	1	1363-1389(1.62)
gnl UG Hs#S4285057	0.62	1	22-45(0.62)
gnl UG Hs#S3438729	0.16	1	839-867(0.16)
gnl UG Hs#S1727048	1.65	3	292-318(0.08) 958-983(0.79) 1048-1073(1.65)
gnl UG Hs#S1091045	0.33	2	367-392(0.33) 548-573(0.23)
gnl UG Hs#S7110910	0.07	1	669-694(0.07)
gnl UG Hs#S1569314	0.75	1	1693-1718(0.75)
gnl UG Hs#S1727908	1.02	1	971-1002(1.02)
gnl UG Hs#S3988449	0.54	1	192-218(0.54)
gnl UG Hs#S7112475	0.57	3	501-524(0.20) 1684-1709(0.04) 3017-3043(0.57)
gnl UG Hs#S2294396	1.3	1	536-562(1.30)
gnl UG Hs#S3219373	0.46	1	1168-1193(0.46)
gnl UG Hs#S1727430	2.98	4	642-668(2.65) 910-936(2.08) 1157-1181(0.29) 1582-1610(2.98)
gnl UG Hs#S3219228	1.4	1	197-222(1.40)
gnl UG Hs#S15644809	3.39	8	339-364(1.11) 403-429(0.21) 678-703(0.68) 968-993(2.50) 1364-1389(3.39) 1460-1486(0.27) 1519-1544(2.04) 1664-1689(1.08)
gnl UG Hs#S2293954	0.63	1	151-176(0.63)
gnl UG Hs#S1728495	1.89	2	120-145(1.89) 148-172(0.27)
gnl UG Hs#S2293874	1.23	2	198-224(0.49) 303-328(1.23)
gnl UG Hs#S4823170	0.14	1	59-84(0.14)
gnl UG Hs#S15116095	1.98	1	842-868(1.98)
gnl UG Hs#S1730838	1.17	3	812-837(1.17) 1241-1266(0.20) 2592-2616(0.62)
gnl UG Hs#S4807706	0.56	1	1118-1141(0.56)
gnl UG Hs#S15637088	2.25	1	240-265(2.25)
gnl UG Hs#S3989203	1.17	1	660-685(1.17)
gnl UG Hs#S3438940	0.58	1	1165-1190(0.58)
gnl UG Hs#S15644256	2.67	3	419-444(1.17) 1993-2018(0.03) 2143-2168(2.67)
gnl UG Hs#S4621593	4.55	2	1061-1089(1.55) 1854-1879(4.55)
gnl UG Hs#S15632964	2.7	3	230-258(0.82) 731-756(0.30) 804-829(2.70)
gnl UG Hs#S1969028	4.08	1	1382-1408(4.08)
gnl UG Hs#S3940077	0.68	1	136-162(0.68)
gnl UG Hs#S7111878	2.39	2	442-467(2.39) 1338-1363(0.08)
gnl UG Hs#S4553499	5.95	9	730-756(3.17) 1369-1394(0.53) 1736-1761(5.95) 1983-2008(0.91) 2556-2582(0.11) 2674-2698(0.18) 3426-3451(0.72) 4158-4183(1.46) 4357-4383(1.69)
gnl UG Hs#S3438578	5.16	2	1156-1182(1.71) 1279-1304(5.16)
gnl UG Hs#S3438992	0.9	1	1288-1315(0.90)
gnl UG Hs#S14812844	1.98	3	1632-1657(1.46) 1666-1692(1.91) 1694-1719(1.98)
gnl UG Hs#S10832218	3.2	3	278-305(3.20) 453-478(2.67) 806-831(2.35)
gnl UG Hs#S3437961	7.31	1	195-220(7.31)
gnl UG Hs#S4631317	0.65	1	114-140(0.65)
gnl UG Hs#S3603828	0.43	2	659-684(0.40) 726-752(0.43)
gnl UG Hs#S3220213	0.75	1	1026-1051(0.75)
gnl UG Hs#S1569349	4.2	4	654-679(2.70) 1121-1146(4.20) 1207-1232(0.16) 2976-3001(0.20)

gnl UG Hs#S3438669	1.39	3	1775-1800(1.39) 3107-3135(0.29) 3206-3231(0.14)
gnl UG Hs#S3547090	4.08	3	198-222(0.77) 671-699(0.65) 739-764(4.08)
gnl UG Hs#S4284743	1.4	1	1548-1576(1.40)
gnl UG Hs#S5517615	0.55	2	677-704(0.55) 1021-1046(0.40)
gnl UG Hs#S4621152	4.4	4	124-149(2.21) 343-368(2.30) 526-552(4.40) 555-580(4.04)
gnl UG Hs#S3438540	2.14	1	771-797(2.14)
gnl UG Hs#S5517247	2.24	1	559-584(2.24)
gnl UG Hs#S4816235	0.81	1	393-418(0.81)
gnl UG Hs#S4620992	3.34	1	721-748(3.34)
gnl UG Hs#S15632131	0.4	3	820-845(0.10) 922-950(0.14) 1144-1170(0.40)
gnl UG Hs#S4044924	0.98	2	1742-1767(0.98) 3363-3388(0.89)
gnl UG Hs#S5978805	2.36	2	418-444(2.36) 524-550(0.94)
gnl UG Hs#S3219452	1.53	7	6-32(0.12) 344-369(0.76) 981-1007(0.04) 1152-1179(1.53) 1247-1272(0.39) 1389-1414(0.98) 1513-1538(0.62)
gnl UG Hs#S1727662	0.66	2	1483-1509(0.01) 1919-1945(0.66)
gnl UG Hs#S4818129	0.85	2	902-927(0.11) 2578-2606(0.85)
gnl UG Hs#S2139197	5.14	1	127-152(5.14)
gnl UG Hs#S3333480	2.67	1	301-326(2.67)
gnl UG Hs#S2138687	2.1	3	215-241(1.14) 306-332(2.10) 448-474(0.01)
gnl UG Hs#S3219367	0.67	2	186-212(0.27) 237-263(0.67)
gnl UG Hs#S4822641	0.74	2	128-154(0.69) 886-911(0.74)
gnl UG Hs#S11154083	0.52	1	456-481(0.52)
gnl UG Hs#S3940065	0.82	2	252-277(0.82) 810-835(0.28)
gnl UG Hs#S3619270	1.72	1	188-213(1.72)
gnl UG Hs#S3219924	0.09	1	2671-2699(0.09)
gnl UG Hs#S4830935	0.16	1	1218-1246(0.16)
gnl UG Hs#S3219878	2.98	2	743-769(0.40) 922-950(2.98)
gnl UG Hs#S2138962	1.76	3	16-39(0.56) 512-537(0.33) 633-659(1.76)
gnl UG Hs#S2140165	1.75	1	431-457(1.75)
gnl UG Hs#S1732052	2.56	1	1602-1628(2.56)
gnl UG Hs#S1729827	1.08	1	496-524(1.08)
gnl UG Hs#S1731990	0.59	1	891-916(0.59)
gnl UG Hs#S1969131	3.21	5	1056-1083(0.98) 1320-1346(3.21) 1593-1621(0.66) 2307-2332(1.30) 2575-2600(3.15)
gnl UG Hs#S2139584	1.32	1	585-612(1.32)
gnl UG Hs#S2293570	0.82	1	10-35(0.82)
gnl UG Hs#S4284985	1.15	1	192-217(1.15)
gnl UG Hs#S3972987	0.59	1	2586-2612(0.59)
gnl UG Hs#S3619638	0.81	1	188-213(0.81)
gnl UG Hs#S4810741	3.34	5	133-158(0.72) 201-226(0.97) 363-388(0.88) 652-677(3.34) 969-994(0.88)
gnl UG Hs#S2293196	2.4	2	481-507(2.40) 517-545(2.07)
gnl UG Hs#S2139077	3.26	1	544-569(3.26)
gnl UG Hs#S7110737	4.62	4	748-776(4.62) 1341-1366(1.04) 1572-1597(1.89) 2858-2883(2.57)
gnl UG Hs#S4823133	3.23	3	171-195(0.04) 1136-1161(2.40) 2613-2641(3.23)
gnl UG Hs#S4809276	1.86	2	800-826(1.86) 3050-3075(0.44)
gnl UG Hs#S3438386	2.04	2	76-105(2.04) 890-915(0.98)
gnl UG Hs#S2293946	1.26	2	1748-1776(1.26) 1790-1816(0.46)
gnl UG Hs#S4392164	1.5	3	351-379(0.40) 508-533(0.94) 685-711(1.50)
gnl UG Hs#S4046143	2.89	1	1587-1612(2.89)
gnl UG Hs#S1824474	1.65	6	166-192(0.27) 612-640(0.74) 770-798(1.40) 1266-1294(0.98) 1412-1437(0.10) 1908-1933(1.65)
gnl UG Hs#S2140613	0.08	1	31-57(0.08)
gnl UG Hs#S2294427	0.21	1	1-26(0.21)
gnl UG Hs#S3991053	0.11	1	198-223(0.11)
gnl UG Hs#S1730644	2.4	2	46-74(2.40) 78-103(1.94)
gnl UG Hs#S2293263	0.13	1	313-338(0.13)
gnl UG Hs#S2139562	3.76	4	537-562(0.30) 573-599(0.17) 696-722(3.76) 1320-1345(1.08)

gnl UG Hs#S5978655	0.86	1	114-140(0.86)
gnl UG Hs#S6693097	0.66	2	2222-2250(0.13) 3209-3235(0.66)
gnl UG Hs#S2293182	2.55	3	124-152(0.30) 495-522(2.55) 1627-1652(0.40)
gnl UG Hs#S3940905	1.26	3	41-67(0.81) 135-161(0.69) 602-627(1.26)
gnl UG Hs#S1726318	4.5	7	292-318(4.50) 768-794(0.21) 1305-1330(0.47) 1351-1376(2.47) 2785-2812(0.46) 3120-3147(0.97) 3275-3300(0.01)
gnl UG Hs#S10832571	2	1	215-240(2.00)
gnl UG Hs#S1824576	1.11	2	32-55(1.11) 114-140(0.33)
gnl UG Hs#S3438587	1.75	1	864-890(1.75)
gnl UG Hs#S15644797	0.23	1	638-664(0.23)
gnl UG Hs#S4807880	1.11	1	743-768(1.11)
gnl UG Hs#S7111269	2.97	1	1546-1571(2.97)
gnl UG Hs#S1727846	1.16	1	1045-1070(1.16)
gnl UG Hs#S5860352	0.17	1	1057-1083(0.17)
gnl UG Hs#S4807184	0.13	1	682-707(0.13)
gnl UG Hs#S10817660	4.62	7	272-298(0.84) 375-403(4.62) 454-480(0.89) 562-586(0.68) 1703-1729(0.33) 1939-1964(0.53) 2162-2187(3.03)
gnl UG Hs#S1731342	0.08	1	167-191(0.08)
gnl UG Hs#S1727801	5.56	1	287-312(5.56)
gnl UG Hs#S1731826	1.91	1	1015-1040(1.91)
gnl UG Hs#S5931378	2.07	7	1063-1087(0.19) 1214-1240(0.68) 1351-1376(0.79) 1387-1413(0.34) 1840-1866(1.21) 2862-2887(2.07) 3270-3297(1.76)
gnl UG Hs#S4807875	3.67	1	1909-1934(3.67)
gnl UG Hs#S3438938	0.95	1	1347-1371(0.95)
gnl UG Hs#S5978838	0.17	1	791-816(0.17)
gnl UG Hs#S1731228	4.65	3	105-130(2.50) 172-198(4.65) 891-919(1.98)
gnl UG Hs#S2139149	3.65	3	1128-1153(3.65) 1458-1483(2.50) 1808-1834(1.33)
gnl UG Hs#S4814992	0.1	1	2576-2602(0.10)
gnl UG Hs#S3618500	4.72	8	203-231(0.23) 663-693(1.15) 1654-1679(4.72) 1815-1840(0.17) 2082-2107(1.94) 2582-2607(0.29) 2858-2884(1.73) 2904-2931(1.03)
gnl UG Hs#S1731898	3.4	8	97-122(2.23) 289-314(3.40) 489-514(0.48) 535-560(2.17) 1734-1759(0.36) 2773-2798(0.30) 2831-2857(0.47) 2922-2948(1.84)
gnl UG Hs#S7112054	0.22	2	764-789(0.04) 952-978(0.22)
gnl UG Hs#S2293684	0.59	1	1959-1984(0.59)
gnl UG Hs#S3219096	3.86	1	395-421(3.86)
gnl UG Hs#S1730176	3.88	2	221-249(3.88) 272-297(1.08)
gnl UG Hs#S7110615	0.46	1	2810-2835(0.46)
gnl UG Hs#S1730735	0.85	1	202-227(0.85)
gnl UG Hs#S1728362	2.82	3	234-261(1.43) 267-292(2.82) 498-523(0.29)
gnl UG Hs#S3220146	1.11	2	296-322(0.75) 389-414(1.11)
gnl UG Hs#S5517546	3.05	1	1383-1410(3.05)
gnl UG Hs#S1730991	0.59	2	206-231(0.46) 802-828(0.59)
gnl UG Hs#S3619205	2.89	1	607-631(2.89)
gnl UG Hs#S1728873	0.89	1	192-218(0.89)
gnl UG Hs#S1726931	5.08	3	38-63(0.40) 320-345(5.08) 600-625(0.07)
gnl UG Hs#S4819948	2.3	2	307-333(2.30) 389-418(0.55)
gnl UG Hs#S1730372	3.95	2	129-154(3.95) 342-370(0.40)
gnl UG Hs#S1729103	1.91	1	626-651(1.91)
gnl UG Hs#S2293450	2.5	1	203-228(2.50)
gnl UG Hs#S7111099	2.08	4	63-89(2.08) 1259-1287(0.65) 1583-1610(1.66) 1662-1687(1.87)
gnl UG Hs#S4808387	0.42	5	245-270(0.13) 440-466(0.42) 524-552(0.40) 853-878(0.39) 956-981(0.23)
gnl UG Hs#S2138977	1.4	1	592-617(1.40)
gnl UG Hs#S1729000	0.6	1	280-306(0.60)
gnl UG Hs#S3219783	1.5	1	675-701(1.50)
gnl UG Hs#S1727517	1.76	1	33-58(1.76)
gnl UG Hs#S4827098	1.83	2	583-609(0.56) 956-982(1.83)
gnl UG Hs#S15730162	1.07	3	2346-2371(0.58) 2409-2435(0.54) 2590-2618(1.07)
gnl UG Hs#S2293369	3.13	3	112-137(3.13) 158-183(0.53) 340-366(0.69)
gnl UG Hs#S7111863	3.2	1	528-554(3.20)

gnl UG Hs#S1730877	0.79	2	900-926(0.50)	1168-1194(0.79)
gnl UG Hs#S5931233	0.52	1	88-116(0.52)	
gnl UG Hs#S3973121	4.5	10	395-420(1.13)	706-731(3.01) 1340-1368(2.25) 1381-1404(4.50) 1865-1890(0.14) 1983-2008(1.30) 2375-2404(2.26) 2458-2483(0.30) 2545-2571(3.88) 2572-2597(1.19)
gnl UG Hs#S4283823	0.55	1	471-495(0.55)	
gnl UG Hs#S11046590	0.04	1	6-32(0.04)	
gnl UG Hs#S3602911	1.6	2	559-585(1.60)	780-806(1.01)
gnl UG Hs#S4807900	1.66	2	921-946(1.66)	958-984(0.19)
gnl UG Hs#S5860323	3.89	3	1744-1769(3.89)	1970-1996(1.28) 2004-2028(2.90)
gnl UG Hs#S14802313	2.65	1	40-65(2.65)	
gnl UG Hs#S7110639	0.91	1	1168-1193(0.91)	
gnl UG Hs#S5931221	3.4	2	417-443(0.62)	874-899(3.40)
gnl UG Hs#S3973038	0.58	2	241-266(0.58)	415-441(0.30)
gnl UG Hs#S3217941	0.62	1	940-968(0.62)	
gnl UG Hs#S2293660	0.45	2	233-263(0.43)	661-689(0.45)
gnl UG Hs#S4823569	0.93	2	475-501(0.45)	881-907(0.93)
gnl UG Hs#S3439123	1.52	2	276-304(1.52)	671-697(0.30)
gnl UG Hs#S1727796	2.82	6	430-457(2.52)	465-490(0.26) 1317-1342(2.30) 1651-1677(0.04) 1762-1788(2.82) 1805-1831(0.76)
gnl UG Hs#S2293812	0.79	1	160-185(0.79)	
gnl UG Hs#S1727971	0.14	1	515-540(0.14)	
gnl UG Hs#S2139274	2.84	2	27-52(2.84)	227-253(1.33)
gnl UG Hs#S1728015	2.57	7	1561-1586(2.57)	1656-1681(2.04) 1798-1823(0.18) 2298-2323(0.75) 3226-3251(0.72) 3292-3317(0.50) 3355-3381(2.30)
gnl UG Hs#S11046538	8.59	3	96-122(4.62)	146-171(1.22) 518-543(8.59)
gnl UG Hs#S4823623	3.4	3	588-613(0.30)	1074-1099(3.40) 1290-1315(3.30)
gnl UG Hs#S4046183	0.24	1	511-536(0.24)	
gnl UG Hs#S3905493	1.72	4	46-75(0.33)	168-193(1.62) 1169-1194(0.32) 1242-1267(1.72)
gnl UG Hs#S1729518	2.27	2	755-780(2.27)	1738-1763(0.14)
gnl UG Hs#S1729295	1.83	3	68-93(0.72)	231-256(0.20) 407-432(1.83)
gnl UG Hs#S2138767	2.17	4	118-141(2.17)	152-178(0.17) 2122-2152(0.67) 2360-2385(1.88)
gnl UG Hs#S4827992	8.43	3	507-532(1.07)	610-635(8.43) 1131-1159(4.20)
gnl UG Hs#S11046653	1.17	8	268-293(0.62)	586-611(1.17) 1013-1041(0.55) 1100-1126(0.50) 1307-1335(1.03) 1834-1860(0.40) 2342-2368(0.12) 2493-2519(0.04)
gnl UG Hs#S3543446	4.08	3	64-92(1.00)	195-221(4.08) 498-524(0.55)
gnl UG Hs#S4630850	4.21	7	20-45(1.07)	1121-1147(3.83) 1160-1188(0.04) 1209-1234(1.26) 1296-1324(0.45) 1926-1951(4.21) 2077-2104(0.74)
gnl UG Hs#S4285221	4.79	3	132-157(4.79)	302-327(0.14) 541-566(0.04)
gnl UG Hs#S1726550	0.04	1	99-124(0.04)	
gnl UG Hs#S3439092	3.67	5	445-473(0.74)	524-552(3.67) 719-744(0.87) 981-1008(1.15) 1071-1096(1.53)
gnl UG Hs#S3438807	0.5	1	585-611(0.50)	
gnl UG Hs#S3973098	0.41	1	62-87(0.41)	
gnl UG Hs#S4825177	0.1	1	467-492(0.10)	
gnl UG Hs#S1727491	0.62	1	201-228(0.62)	
gnl UG Hs#S15642706	0.37	1	58-84(0.37)	
gnl UG Hs#S1727749	4.62	2	507-532(4.62)	559-585(0.68)
gnl UG Hs#S2140084	1.57	2	70-95(1.57)	607-632(0.39)
gnl UG Hs#S4285062	3.01	6	574-599(0.72)	629-654(0.50) 763-789(1.60) 1220-1248(0.20) 1568-1594(2.10) 1749-1775(3.01)
gnl UG Hs#S1969010	6.11	6	208-233(4.11)	1211-1237(1.23) 1393-1418(0.94) 2195-2223(1.94) 2361-2387(0.52) 2414-2439(6.11)
gnl UG Hs#S4615050	1.53	1	1093-1118(1.53)	
gnl UG Hs#S1730237	4.88	2	1621-1649(4.88)	2119-2144(0.30)
gnl UG Hs#S7110014	0.3	1	1017-1042(0.30)	
gnl UG Hs#S3601694	1.05	1	706-731(1.05)	
gnl UG Hs#S3603837	1.26	2	234-259(1.26)	994-1018(0.44)
gnl UG Hs#S3601666	1.56	1	712-736(1.56)	
gnl UG Hs#S3219162	1.91	3	226-251(0.39)	325-350(0.17) 362-387(1.91)
gnl UG Hs#S1728096	0.62	1	179-205(0.62)	
gnl UG Hs#S2139410	1.36	2	121-147(1.36)	349-374(0.84)
gnl UG Hs#S1730173	1.71	1	405-432(1.71)	

gnl UG Hs#S2139142	1.89	2 301-327(0.69) 489-514(1.89)
gnl UG Hs#S3619142	0.98	1 962-987(0.98)
gnl UG Hs#S2139585	1.4	2 797-826(1.40) 1527-1552(0.40)
gnl UG Hs#S15637203	2.72	9 291-316(1.50) 825-851(0.37) 963-990(0.49) 1363-1389(0.33) 1456-1484(0.17) 1518-1545(2.72) 1549-1575(0.23) 1818-1843(0.80) 2139-2164(2.01)
gnl UG Hs#S1729543	0.72	1 63-88(0.72)
gnl UG Hs#S4630848	2.3	1 613-640(2.30)
gnl UG Hs#S6091957	0.77	1 303-334(0.77)
gnl UG Hs#S5860364	1.13	2 730-755(1.13) 1072-1097(0.78)
gnl UG Hs#S1726919	4.03	2 1323-1351(2.66) 1413-1438(4.03)
gnl UG Hs#S3218949	0.98	5 210-235(0.33) 246-274(0.98) 409-434(0.53) 1357-1383(0.27) 2109-2135(0.34)
gnl UG Hs#S7111157	0.82	2 313-338(0.53) 357-383(0.82)
gnl UG Hs#S3219649	1.27	2 646-672(0.34) 1552-1578(1.27)
gnl UG Hs#S1729985	2.58	4 618-643(2.58) 2653-2680(0.09) 2694-2720(0.33) 2749-2774(1.85)
gnl UG Hs#S1726975	2.3	3 64-89(0.72) 763-789(2.30) 1078-1102(1.26)
gnl UG Hs#S3990596	0.57	2 1483-1511(0.30) 1639-1665(0.57)
gnl UG Hs#S1731328	2.4	3 191-216(1.13) 235-261(2.40) 754-779(0.79)
gnl UG Hs#S5517080	0.91	1 112-137(0.91)
gnl UG Hs#S3603167	1.98	2 720-746(1.98) 885-911(0.27)
gnl UG Hs#S2293786	0.29	1 575-600(0.29)
gnl UG Hs#S3439003	0.89	1 816-841(0.89)
gnl UG Hs#S4435310	0.69	1 541-567(0.69)
gnl UG Hs#S1729178	3.92	2 1464-1489(0.58) 2326-2352(3.92)
gnl UG Hs#S1824487	0.13	1 231-256(0.13)
gnl UG Hs#S3601570	3.3	2 405-430(1.72) 479-505(3.30)
gnl UG Hs#S3219715	4.92	5 84-110(0.86) 230-257(0.30) 515-540(0.30) 1281-1306(4.92) 1334-1360(1.40)
gnl UG Hs#S1728173	2.26	3 116-141(1.75) 216-241(2.26) 882-907(0.49)
gnl UG Hs#S4615552	1.03	2 322-350(1.03) 1556-1582(0.66)
gnl UG Hs#S2138952	3.23	1 63-89(3.23)
gnl UG Hs#S3220185	5.69	3 408-436(5.69) 449-474(0.89) 497-520(1.15)
gnl UG Hs#S4436273	0.95	1 907-934(0.95)
gnl UG Hs#S15636276	3.78	1 1746-1771(3.78)
gnl UG Hs#S4828135	1.9	4 194-222(1.23) 508-533(1.90) 761-786(0.81) 903-931(0.01)
gnl UG Hs#S2294621	0.79	1 2117-2142(0.79)
gnl UG Hs#S1730294	2.9	5 779-802(0.11) 863-889(0.62) 963-988(2.90) 1186-1211(0.17) 1264-1290(0.47)
gnl UG Hs#S1730723	1.89	3 84-111(1.39) 507-532(1.89) 946-971(0.72)
gnl UG Hs#S4824168	2.11	2 1109-1134(2.11) 1262-1287(1.14)
gnl UG Hs#S4828525	0.27	1 112-138(0.27)
gnl UG Hs#S3218962	3.03	2 323-352(3.03) 421-449(1.11)
gnl UG Hs#S4044525	1.3	1 318-343(1.30)
gnl UG Hs#S3601674	1.13	1 169-195(1.13)
gnl UG Hs#S2294539	4.56	8 1896-1921(2.72) 2052-2079(0.84) 2177-2202(2.36) 2560-2586(3.36) 2603-2628(0.17) 2649-2674(4.56) 3245-3270(2.30) 3898-3923(3.37)
gnl UG Hs#S4631403	0.23	1 1581-1610(0.23)
gnl UG Hs#S4622746	0.49	1 1038-1064(0.49)
gnl UG Hs#S3438932	1.56	3 465-490(0.87) 782-808(0.76) 1079-1109(1.56)
gnl UG Hs#S3355557	1.99	2 161-185(1.99) 258-283(0.16)
gnl UG Hs#S2139155	1.53	4 322-349(0.43) 872-897(1.08) 1052-1079(1.14) 1155-1180(1.53)
gnl UG Hs#S2139280	0.46	1 290-315(0.46)
gnl UG Hs#S1729679	0.84	4 87-112(0.84) 546-570(0.10) 680-705(0.57) 930-955(0.76)
gnl UG Hs#S2293480	4.85	1 117-142(4.85)
gnl UG Hs#S7112781	0.84	1 300-325(0.84)
gnl UG Hs#S5495013	2.78	1 627-652(2.78)
gnl UG Hs#S7112750	1.94	3 108-133(0.79) 603-628(0.98) 2005-2030(1.94)
gnl UG Hs#S5978609	1.62	1 623-649(1.62)
gnl UG Hs#S3803671	4.94	4 21-46(4.94) 100-125(0.01) 425-450(3.59) 1370-1394(2.41)

gnl UG Hs#S1971591	2.3	1 153-178(2.30)
gnl UG Hs#S3438804	2.4	5 713-738(2.40) 1347-1374(1.69) 2352-2377(0.92) 3108-3134(0.43) 3165-3190(1.39)
gnl UG Hs#S1731595	5.82	2 16-44(0.14) 1461-1487(5.82)
gnl UG Hs#S2140415	1.58	4 178-203(0.65) 273-298(1.58) 421-447(0.91) 625-650(0.07)
gnl UG Hs#S1731677	0.33	1 1160-1188(0.33)
gnl UG Hs#S4807644	1.88	2 543-568(1.88) 1151-1176(0.24)
gnl UG Hs#S1727005	2.23	1 252-281(2.23)
gnl UG Hs#S15638199	1.5	3 217-243(1.50) 1270-1295(0.40) 2274-2299(1.17)
gnl UG Hs#S4285117	3.97	1 239-264(3.97)
gnl UG Hs#S1729432	5.72	2 200-225(5.72) 285-310(1.85)
gnl UG Hs#S3219454	2.24	3 1000-1028(2.24) 1087-1112(0.72) 1166-1194(0.88)
gnl UG Hs#S4545987	3.07	2 136-161(3.07) 168-192(0.23)
gnl UG Hs#S4821534	0.33	1 263-288(0.33)
gnl UG Hs#S15115744	4.2	3 619-644(0.82) 730-755(4.20) 820-845(1.96)
gnl UG Hs#S1730754	0.67	1 1066-1092(0.67)
gnl UG Hs#S2293303	4.43	1 1512-1537(4.43)
gnl UG Hs#S2139705	0.2	1 391-420(0.20)
gnl UG Hs#S4546274	0.88	1 177-202(0.88)
gnl UG Hs#S4807822	1.91	3 194-220(0.43) 322-348(1.91) 655-680(0.65)
gnl UG Hs#S6664657	3.69	4 2318-2346(0.07) 2368-2396(3.69) 3270-3298(0.42) 3354-3380(0.34)
gnl UG Hs#S1971519	2.23	6 533-558(1.72) 710-738(2.08) 837-862(2.23) 1066-1092(0.20) 1457-1482(0.89) 1534-1559(0.24)
gnl UG Hs#S1727407	0.75	1 221-246(0.75)
gnl UG Hs#S4812446	3.4	2 249-276(3.40) 304-330(0.58)
gnl UG Hs#S7112784	4.55	7 1086-1112(2.56) 2114-2139(2.52) 2680-2706(2.43) 2714-2740(4.55) 3090-3113(0.15) 3254-3280(3.08) 3305-3330(0.01)
gnl UG Hs#S1728810	1.62	4 70-96(0.04) 224-249(1.62) 250-275(0.08) 870-897(0.55)
gnl UG Hs#S1726748	3.5	1 577-602(3.50)
gnl UG Hs#S1728343	1.46	1 940-966(1.46)
gnl UG Hs#S1244975	3.85	9 481-507(0.23) 531-556(0.55) 1049-1074(1.67) 2057-2085(1.88) 2637-2665(2.84) 3595-3621(0.43) 3634-3659(3.85) 5014-5040(2.46) 5072-5097(1.40)
gnl UG Hs#S1972995	0.39	2 527-552(0.33) 1576-1601(0.39)
gnl UG Hs#S1729628	1.56	1 529-556(1.56)
gnl UG Hs#S4813091	1.98	1 144-169(1.98)
gnl UG Hs#S1728517	3.04	3 116-141(3.04) 284-309(0.91) 535-561(1.76)
gnl UG Hs#S1730226	0.2	1 371-396(0.20)
gnl UG Hs#S4807860	5.74	13 53-78(0.14) 190-215(0.71) 587-612(1.58) 821-848(2.39) 958-983(0.50) 1051-1076(2.65) 1178-1203(0.14) 1448-1474(4.23) 1745-1770(0.29) 1851-1877(5.74) 1956-1982(0.82) 2007-2032(0.17) 2056-
gnl UG Hs#S4815817	0.57	2 548-573(0.57) 576-601(0.24)
gnl UG Hs#S10832526	1.3	2 3952-3977(1.30) 4275-4300(0.36)
gnl UG Hs#S1729810	2.3	1 1445-1470(2.30)
gnl UG Hs#S1727800	2.27	3 830-858(2.27) 1217-1242(0.33) 3101-3124(0.97)
gnl UG Hs#S2138936	0.3	1 610-636(0.30)
gnl UG Hs#S3619669	1.45	4 138-165(1.01) 248-273(0.40) 902-928(1.45) 1055-1085(1.10)
gnl UG Hs#S11154025	0.03	1 457-484(0.03)
gnl UG Hs#S5978835	2.3	1 449-475(2.30)
gnl UG Hs#S4631189	1.69	2 223-248(0.87) 346-374(1.69)
gnl UG Hs#S15641466	4.83	2 328-355(0.69) 488-514(4.83)
gnl UG Hs#S1728407	1.79	2 18-43(1.79) 236-261(1.18)
gnl UG Hs#S3438923	3.13	2 779-804(3.13) 841-866(2.53)
gnl UG Hs#S14802398	4.82	1 867-893(4.82)
gnl UG Hs#S1727217	1.19	1 637-662(1.19)
gnl UG Hs#S4807861	2.25	1 792-816(2.25)
gnl UG Hs#S1726899	2.59	6 306-331(0.16) 387-412(0.36) 1182-1210(2.59) 1357-1382(0.04) 1641-1669(1.40) 1958-1984(1.40)
gnl UG Hs#S1824516	4.11	1 435-458(4.11)
gnl UG Hs#S4615975	1.62	4 84-108(1.58) 194-217(1.62) 776-801(0.08) 1372-1398(0.36)
gnl UG Hs#S3601568	0.57	2 218-246(0.23) 1642-1667(0.57)
gnl UG Hs#S4553552	1.99	5 303-327(1.99) 359-383(0.42) 475-504(0.97) 1227-1253(0.72) 1283-1308(1.40)

gnl UG Hs#S3219261	0.48	1	119-144(0.48)
gnl UG Hs#S4285343	4.43	3	189-215(4.43) 222-248(0.76) 395-423(1.51)
gnl UG Hs#S7111409	0.66	3	1629-1654(0.17) 1704-1729(0.66) 2161-2187(0.59)
gnl UG Hs#S2329527	0.04	1	938-964(0.04)
gnl UG Hs#S4618098	4.36	1	828-853(4.36)
gnl UG Hs#S5931249	2.14	5	812-840(0.96) 903-928(1.13) 984-1010(1.23) 2231-2256(2.14) 2509-2537(1.71)
gnl UG Hs#S2140646	1.82	1	466-491(1.82)
gnl UG Hs#S14863734	2.82	3	112-137(0.14) 718-743(2.82) 1115-1140(0.58)
gnl UG Hs#S1726422	2.39	2	144-169(2.17) 252-277(2.39)
gnl UG Hs#S1728666	0.46	2	204-229(0.46) 235-261(0.34)
gnl UG Hs#S1727788	1.32	4	85-114(0.71) 448-473(0.94) 697-722(1.20) 895-919(1.32)
gnl UG Hs#S4828467	0.86	1	1026-1052(0.86)
gnl UG Hs#S1731309	0.13	1	289-314(0.13)
gnl UG Hs#S1730701	1.76	1	447-475(1.76)
gnl UG Hs#S2140443	1.81	1	129-157(1.81)
gnl UG Hs#S4553164	0.4	2	73-98(0.40) 175-200(0.01)
gnl UG Hs#S1729554	1.97	4	2818-2844(1.57) 3178-3203(1.97) 3228-3253(0.94) 3793-3818(0.46)
gnl UG Hs#S1729832	0.49	1	332-358(0.49)
gnl UG Hs#S1727557	0.72	1	458-483(0.72)
gnl UG Hs#S1731897	3.79	1	576-601(3.79)
gnl UG Hs#S2139829	1.98	2	366-394(0.88) 550-576(1.98)
gnl UG Hs#S3817877	0.1	1	245-271(0.10)
gnl UG Hs#S3355580	0.58	1	700-724(0.58)
gnl UG Hs#S3438703	0.2	1	390-415(0.20)
gnl UG Hs#S1732014	0.65	3	183-210(0.14) 247-272(0.65) 447-472(0.30)
gnl UG Hs#S2139932	0.91	2	686-712(0.91) 918-943(0.59)
gnl UG Hs#S4807995	0.58	2	117-142(0.58) 350-376(0.27)
gnl UG Hs#S1727114	1.4	1	589-617(1.40)
gnl UG Hs#S3219847	0.54	1	164-190(0.54)
gnl UG Hs#S3814693	0.52	1	298-326(0.52)
gnl UG Hs#S1732131	2.98	2	131-156(0.30) 481-509(2.98)
gnl UG Hs#S5860344	2.3	2	566-591(0.56) 1164-1189(2.30)
gnl UG Hs#S1731615	0.82	1	1384-1410(0.82)
gnl UG Hs#S4621598	1.21	2	384-409(0.94) 1278-1301(1.21)
gnl UG Hs#S1726923	0.17	1	10-36(0.17)
gnl UG Hs#S4810146	1.25	1	2086-2114(1.25)
gnl UG Hs#S15638067	3.01	6	574-599(0.72) 629-654(0.50) 763-789(1.60) 1220-1248(0.20) 1568-1594(2.10) 1749-1775(3.01)
gnl UG Hs#S15631516	2.21	6	380-403(1.04) 577-602(1.40) 676-701(0.81) 710-736(2.17) 760-791(0.90) 821-846(2.21)
gnl UG Hs#S3619659	2.56	4	350-378(2.56) 997-1022(2.30) 1118-1143(0.30) 1551-1577(0.60)
gnl UG Hs#S3219879	2.78	2	3-31(1.76) 110-135(2.78)
gnl UG Hs#S3220207	3.21	3	122-148(1.08) 240-266(0.21) 2092-2117(3.21)
gnl UG Hs#S2140060	1.4	3	2-27(0.84) 281-309(1.40) 565-590(0.94)
gnl UG Hs#S3619238	0.08	1	855-881(0.08)
gnl UG Hs#S4435418	0.06	1	702-728(0.06)
gnl UG Hs#S2138928	2.62	1	331-356(2.62)
gnl UG Hs#S1731313	3.3	2	48-73(3.17) 120-145(3.30)
gnl UG Hs#S3603156	2.2	1	38-63(2.20)
gnl UG Hs#S15643217	5.14	1	188-213(5.14)
gnl UG Hs#S4827230	2.56	2	236-261(0.89) 337-365(2.56)
gnl UG Hs#S1728050	1.88	4	48-73(1.88) 150-178(0.81) 373-401(0.21) 573-597(0.34)
gnl UG Hs#S1732170	5.36	1	1675-1700(5.36)
gnl UG Hs#S2294503	2.04	1	54-83(2.04)
gnl UG Hs#S4807933	1.63	1	131-156(1.63)
gnl UG Hs#S2139439	0.72	1	391-416(0.72)

gnl UG Hs#S1730152	0.13	1 68-93(0.13)
gnl UG Hs#S3219551	1.88	1 502-530(1.88)
gnl UG Hs#S2293784	1.43	1 207-233(1.43)
gnl UG Hs#S4807710	2.07	4 859-887(0.47) 1044-1069(0.14) 1856-1881(2.07) 1898-1921(0.30)
gnl UG Hs#S2293711	1.98	1 416-441(1.98)
gnl UG Hs#S5494987	0.58	1 2658-2684(0.58)
gnl UG Hs#S2294088	1.57	2 349-375(0.17) 431-456(1.57)
gnl UG Hs#S2294293	2.2	6 414-439(0.46) 853-881(1.07) 1142-1167(1.90) 1275-1301(0.04) 1493-1519(1.82) 1646-1671(2.20)
gnl UG Hs#S3219040	3.92	3 425-450(0.94) 2416-2441(0.98) 2539-2565(3.92)
gnl UG Hs#S2139499	3.14	6 136-161(3.14) 751-778(2.14) 854-879(1.94) 2547-2573(0.49) 2893-2919(0.11) 3483-3511(2.94)
gnl UG Hs#S1824402	1.63	1 350-375(1.63)
gnl UG Hs#S3439045	0.94	6 738-763(0.26) 1055-1081(0.30) 1288-1311(0.16) 1319-1342(0.72) 1371-1396(0.94) 1406-1431(0.34)
gnl UG Hs#S3438815	4.26	2 567-592(4.26) 1443-1466(0.62)
gnl UG Hs#S2140050	0.11	1 153-179(0.11)
gnl UG Hs#S5978386	1.36	1 1283-1307(1.36)
gnl UG Hs#S1731589	2.98	5 141-167(0.23) 204-229(0.08) 816-841(0.91) 931-956(2.98) 1315-1339(2.94)
gnl UG Hs#S3619679	1.3	2 287-312(1.30) 2461-2489(1.30)
gnl UG Hs#S4614521	0.57	1 1439-1465(0.57)
gnl UG Hs#S6686653	2.21	1 1441-1467(2.21)
gnl UG Hs#S4620586	1.5	1 1350-1376(1.50)
gnl UG Hs#S4831095	1.17	1 213-238(1.17)
gnl UG Hs#S15898577	2.83	2 2869-2898(2.83) 3012-3035(0.56)
gnl UG Hs#S1727053	1.79	1 213-238(1.79)
gnl UG Hs#S7110181	0.88	1 1729-1756(0.88)
gnl UG Hs#S1728268	0.75	1 1183-1208(0.75)
gnl UG Hs#S4818609	3.3	5 168-193(2.47) 220-246(0.40) 881-906(0.76) 1226-1252(3.30) 1323-1349(0.17)
gnl UG Hs#S2138906	2.26	3 690-715(2.26) 740-765(1.14) 812-837(1.72)
gnl UG Hs#S1726828	3.72	5 416-442(3.18) 533-558(1.94) 771-796(3.72) 1360-1383(0.35) 1470-1495(1.14)
gnl UG Hs#S2139783	0.4	1 100-125(0.40)
gnl UG Hs#S3438962	3.2	1 7-32(3.20)
gnl UG Hs#S4044694	0.15	1 1631-1658(0.15)
gnl UG Hs#S3993592	0.43	1 268-295(0.43)
gnl UG Hs#S2139805	4.08	2 89-115(2.67) 129-155(4.08)
gnl UG Hs#S4396107	2.1	1 419-445(2.10)
gnl UG Hs#S1729424	0.13	1 128-154(0.13)
gnl UG Hs#S3355670	1.4	1 1830-1858(1.40)
gnl UG Hs#S2294007	1.13	6 19-47(0.66) 276-305(1.04) 913-938(0.01) 1169-1196(1.01) 1393-1418(0.33) 1671-1696(1.13)
gnl UG Hs#S1728420	0.89	2 488-513(0.11) 690-716(0.89)
gnl UG Hs#S5495191	5.04	1 1193-1219(5.04)
gnl UG Hs#S1729200	1.4	1 175-201(1.40)
gnl UG Hs#S1731714	3.72	1 511-535(3.72)
gnl UG Hs#S3601684	0.47	1 372-395(0.47)
gnl UG Hs#S3814512	1.27	1 516-541(1.27)
gnl UG Hs#S1730876	4.33	8 214-240(4.33) 478-503(2.57) 1545-1570(2.27) 1585-1610(1.07) 2484-2509(2.94) 2773-2798(1.08) 3057-3083(4.08) 3408-3432(0.66)
gnl UG Hs#S1730486	1.3	2 622-648(1.30) 1435-1461(0.60)
gnl UG Hs#S472703	4.62	3 1535-1560(1.08) 3220-3248(4.62) 3327-3352(4.04)
gnl UG Hs#S1726782	0.9	3 536-561(0.04) 862-887(0.90) 1036-1061(0.26)
gnl UG Hs#S2139506	5.3	3 839-865(0.10) 1454-1479(5.30) 1545-1572(0.85)
gnl UG Hs#S3219962	0.58	2 206-231(0.58) 1697-1722(0.40)
gnl UG Hs#S1727457	1.3	1 302-327(1.30)
gnl UG Hs#S2293486	0.17	1 2302-2327(0.17)
gnl UG Hs#S4820919	4.1	4 929-959(4.10) 1142-1167(1.05) 3222-3250(0.04) 3348-3376(0.71)
gnl UG Hs#S1729762	0.43	1 230-256(0.43)
gnl UG Hs#S1729879	1.49	1 138-161(1.49)

gnl UG Hs#S4807605	2.69	2 1000-1023(2.69) 1103-1128(1.72)
gnl UG Hs#S1824526	5.89	3 504-529(2.82) 643-668(2.30) 748-774(5.89)
gnl UG Hs#S4621617	1	7 421-445(1.00) 1412-1440(0.06) 1624-1649(0.91) 1939-1965(0.36) 2041-2067(0.82) 3085-3113(0.45) 3185-3210(0.40)
gnl UG Hs#S1727892	0.72	1 156-181(0.72)
gnl UG Hs#S4435917	0.72	1 1051-1076(0.72)
gnl UG Hs#S10831713	1.98	2 665-689(1.37) 711-736(1.98)
gnl UG Hs#S3547073	0.72	1 343-368(0.72)
gnl UG Hs#S4283926	3.26	4 124-149(1.61) 1253-1278(0.36) 2127-2152(3.26) 2355-2380(0.01)
gnl UG Hs#S6687032	3.2	7 10-35(0.89) 165-190(3.20) 405-430(1.98) 722-748(1.10) 824-849(2.50) 956-981(1.47) 1000-1025(0.65)
gnl UG Hs#S2140137	0.72	2 726-751(0.72) 837-860(0.49)
gnl UG Hs#S4807630	1.3	1 55-80(1.30)
gnl UG Hs#S2140065	1.63	1 31-55(1.63)
gnl UG Hs#S2140692	0.63	4 521-546(0.18) 1433-1458(0.07) 1669-1695(0.30) 1838-1863(0.63)
gnl UG Hs#S1728930	2.89	3 765-790(2.89) 814-842(1.03) 1454-1479(1.53)
gnl UG Hs#S1973087	3.05	3 649-676(0.07) 1388-1413(1.30) 1454-1480(3.05)
gnl UG Hs#S15641542	0.98	1 11-36(0.98)
gnl UG Hs#S3219870	1.5	1 67-92(1.50)
gnl UG Hs#S4545965	1.4	1 177-202(1.40)
gnl UG Hs#S4621177	1.56	4 476-503(1.56) 838-864(1.08) 997-1023(0.44) 1054-1077(0.56)
gnl UG Hs#S15637921	3.04	3 241-264(3.04) 379-404(0.04) 801-826(0.58)
gnl UG Hs#S1731303	1.91	2 394-420(1.14) 689-715(1.91)
gnl UG Hs#S15632713	1.01	1 70-95(1.01)
gnl UG Hs#S3333687	0.17	1 270-296(0.17)
gnl UG Hs#S998748	1.43	3 328-354(0.66) 746-772(1.43) 1362-1387(0.30)
gnl UG Hs#S1972420	3.56	2 1250-1275(0.07) 1517-1543(3.56)
gnl UG Hs#S1727845	4.11	1 564-589(4.11)
gnl UG Hs#S4284994	0.4	2 6275-6302(0.14) 7555-7581(0.40)
gnl UG Hs#S3219693	2.37	2 171-197(1.68) 504-527(2.37)
gnl UG Hs#S2139713	0.26	1 76-105(0.26)
gnl UG Hs#S2294291	2.13	3 83-111(0.27) 265-290(1.79) 809-834(2.13)
gnl UG Hs#S1729662	0.49	1 242-268(0.49)
gnl UG Hs#S1729677	3.3	4 108-133(3.30) 327-356(0.89) 365-391(1.04) 958-983(1.36)
gnl UG Hs#S2140589	3.89	2 324-349(3.65) 362-387(3.89)
gnl UG Hs#S3220078	1.88	2 404-429(0.04) 2345-2368(1.88)
gnl UG Hs#S2139186	6.37	7 534-559(3.46) 1265-1290(2.30) 1300-1324(0.02) 1452-1475(2.78) 1793-1818(0.01) 1824-1849(6.37) 2372-2397(0.56)
gnl UG Hs#S1728298	1.34	1 143-168(1.34)
gnl UG Hs#S2139652	1.39	1 1180-1205(1.39)
gnl UG Hs#S816235	2.11	1 609-636(2.11)
gnl UG Hs#S3219132	1.21	2 18-43(0.50) 362-387(1.21)
gnl UG Hs#S1727556	2.01	2 462-486(1.81) 561-587(2.01)
gnl UG Hs#S2140317	1.43	2 101-126(0.65) 232-257(1.43)
gnl UG Hs#S1726426	1.82	1 618-644(1.82)
gnl UG Hs#S4818921	1.4	5 924-952(1.40) 1208-1236(1.01) 2072-2097(1.29) 2178-2205(1.13) 2398-2426(0.16)
gnl UG Hs#S4811383	1.57	1 412-437(1.57)
gnl UG Hs#S1727671	0.72	1 554-579(0.72)
gnl UG Hs#S4392393	0.56	1 11-35(0.56)
gnl UG Hs#S4824006	3.08	1 257-282(3.08)
gnl UG Hs#S2294636	0.2	1 572-597(0.20)
gnl UG Hs#S1728567	1.23	3 639-665(0.76) 852-877(1.23) 977-1002(0.91)
gnl UG Hs#S4553514	1.16	2 661-684(0.68) 1547-1569(1.16)
gnl UG Hs#S10831793	1.13	1 327-352(1.13)
gnl UG Hs#S1732093	1.76	3 110-136(1.76) 82-107(0.56) 845-871(0.04)
gnl UG Hs#S3219615	1.98	4 291-315(0.22) 324-351(1.98) 651-677(1.40) 1126-1151(0.47)
gnl UG Hs#S3542651	1.34	1 399-422(1.34)

gnl UG Hs#S3439017	2.14	1 22-50(2.14)
gnl UG Hs#S3219199	1.37	1 169-194(1.37)
gnl UG Hs#S4616669	3.13	1 175-203(3.13)
gnl UG Hs#S4618834	3.11	1 501-526(3.11)
gnl UG Hs#S1732444	0.57	1 1070-1096(0.57)
gnl UG Hs#S3438719	0.44	1 116-142(0.44)
gnl UG Hs#S1569309	1.81	4 623-650(0.11) 720-748(1.07) 885-913(1.81) 1082-1107(1.73)
gnl UG Hs#S15846838	1.24	4 303-328(0.24) 381-408(1.24) 520-545(0.07) 620-649(0.16)
gnl UG Hs#S1728625	0.44	1 1141-1167(0.44)
gnl UG Hs#S4617194	1.3	1 654-679(1.30)
gnl UG Hs#S4826920	4.53	1 823-848(4.53)
gnl UG Hs#S3438827	0.3	1 549-572(0.30)
gnl UG Hs#S3619297	0.57	1 178-203(0.57)
gnl UG Hs#S1726754	8.85	2 548-573(0.14) 787-812(8.85)
gnl UG Hs#S2293462	1.84	4 847-873(0.91) 874-900(0.72) 1207-1232(1.58) 1481-1506(1.84)
gnl UG Hs#S1727246	3.85	2 958-982(0.84) 1313-1338(3.85)
gnl UG Hs#S4615051	2.42	2 1116-1143(2.42) 2199-2227(1.33)
gnl UG Hs#S7112126	0.98	1 21-47(0.98)
gnl UG Hs#S2655065	2.85	1 1098-1123(2.85)
gnl UG Hs#S1731630	3.5	2 140-165(3.50) 1620-1646(0.62)
gnl UG Hs#S3219918	5.05	8 182-208(1.17) 537-563(3.08) 594-621(1.04) 1650-1678(1.40) 2063-2090(0.84) 2350-2378(0.72) 2801-2828(3.14) 3130-3155(5.05)
gnl UG Hs#S1730428	0.43	1 208-235(0.43)
gnl UG Hs#S3814519	0.07	1 257-282(0.07)
gnl UG Hs#S1824300	4.5	2 656-681(0.16) 1946-1971(4.50)
gnl UG Hs#S4813579	0.17	1 59-85(0.17)
gnl UG Hs#S2293918	0.67	2 78-104(0.67) 276-301(0.24)
gnl UG Hs#S2294039	1.5	4 1037-1063(1.50) 1118-1145(0.36) 1656-1683(0.02) 1748-1776(0.08)
gnl UG Hs#S1729025	2.5	1 641-666(2.50)
gnl UG Hs#S1731672	3.89	4 214-240(2.50) 906-929(1.36) 1471-1496(0.40) 1500-1526(3.89)
gnl UG Hs#S4546246	1.89	2 1594-1619(1.89) 1695-1720(0.07)
gnl UG Hs#S2139328	1.4	1 136-162(1.40)
gnl UG Hs#S5494804	0.13	1 1541-1569(0.13)
gnl UG Hs#S1727371	1.73	3 277-302(0.75) 499-524(0.30) 643-671(1.73)
gnl UG Hs#S4614354	3.46	2 294-318(3.46) 342-367(1.04)
gnl UG Hs#S1728020	0.53	1 950-975(0.53)
gnl UG Hs#S2294033	4.04	1 174-199(4.04)
gnl UG Hs#S7112695	0.37	2 592-617(0.04) 751-777(0.37)
gnl UG Hs#S3219036	1.2	1 217-242(1.20)
gnl UG Hs#S2139528	2.86	4 1498-1523(1.20) 1637-1662(0.30) 2306-2332(0.07) 3127-3153(2.86)
gnl UG Hs#S10831875	0.62	1 959-982(0.62)
gnl UG Hs#S4815844	2.2	5 137-165(0.66) 284-310(0.30) 828-854(2.20) 863-890(0.85) 1798-1823(0.36)
gnl UG Hs#S1727143	0.75	2 409-434(0.75) 575-604(0.56)
gnl UG Hs#S3988950	3.04	1 99-124(3.04)
gnl UG Hs#S4046236	2.07	7 81-108(2.03) 222-248(1.09) 443-469(1.50) 880-905(0.55) 1213-1239(1.82) 1505-1530(2.07) 2175-2200(1.82)
gnl UG Hs#S3993840	0.98	1 214-239(0.98)
gnl UG Hs#S1728391	1.79	2 269-294(1.79) 328-354(0.46)
gnl UG Hs#S4823466	1.89	1 3122-3145(1.89)
gnl UG Hs#S1729953	1.01	1 278-303(1.01)
gnl UG Hs#S4825886	3.04	3 575-600(3.04) 729-755(0.62) 1099-1122(0.72)
gnl UG Hs#S3601679	1.5	3 96-122(1.50) 591-620(0.59) 768-793(1.33)
gnl UG Hs#S15631497	1.58	1 182-206(1.58)
gnl UG Hs#S7111526	2.89	3 4-29(2.89) 456-485(0.39) 832-857(2.01)
gnl UG Hs#S2293749	1.08	1 630-655(1.08)
gnl UG Hs#S1729805	0.42	1 234-262(0.42)

gnl UG Hs#S5860316	1.53	2 126-151(1.53) 353-379(1.08)
gnl UG Hs#S4816673	0.26	1 225-251(0.26)
gnl UG Hs#S1727631	1.5	1 67-93(1.50)
gnl UG Hs#S1729817	0.39	1 592-617(0.39)
gnl UG Hs#S553743	0.89	1 475-500(0.89)
gnl UG Hs#S3438743	5.12	5 634-660(0.08) 940-965(0.48) 2537-2562(5.12) 2622-2647(3.72) 2761-2787(1.34)
gnl UG Hs#S4046392	3.97	2 90-115(3.97) 1508-1533(0.30)
gnl UG Hs#S3438895	1.07	2 496-522(0.21) 976-1001(1.07)
gnl UG Hs#S7110479	0.65	1 1181-1206(0.65)
gnl UG Hs#S3619635	0.74	1 293-318(0.74)
gnl UG Hs#S2139999	0.2	2 146-171(0.13) 255-284(0.20)
gnl UG Hs#S1728027	2.3	4 402-427(0.93) 500-525(2.13) 1833-1859(2.30) 1908-1933(0.04)
gnl UG Hs#S1731648	3.62	1 948-973(3.62)
gnl UG Hs#S3323210	1.04	1 463-488(1.04)
gnl UG Hs#S4554718	2.27	3 185-210(0.72) 573-601(1.06) 772-798(2.27)
gnl UG Hs#S2139972	0.5	2 333-358(0.24) 1032-1057(0.50)
gnl UG Hs#S3438750	0.63	1 223-248(0.63)
gnl UG Hs#S1728213	0.2	1 84-110(0.20)
gnl UG Hs#S5516729	0.78	3 621-650(0.78) 896-921(0.39) 1454-1479(0.20)
gnl UG Hs#S2293324	2.22	1 275-298(2.22)
gnl UG Hs#S3601857	0.4	2 181-206(0.04) 475-500(0.40)
gnl UG Hs#S1731178	0.53	1 253-278(0.53)
gnl UG Hs#S340	0.46	4 20-46(0.27) 125-151(0.46) 1180-1205(0.07) 1428-1454(0.43)
gnl UG Hs#S14813055	0.14	1 49-74(0.14)
gnl UG Hs#S2139303	1.68	3 175-200(1.68) 277-303(0.91) 696-722(1.49)
gnl UG Hs#S3439054	2.08	4 201-229(0.42) 278-304(0.42) 665-690(2.04) 830-856(2.08)
gnl UG Hs#S3619196	1.56	1 1571-1596(1.56)
gnl UG Hs#S3837597	0.11	1 2398-2423(0.11)
gnl UG Hs#S15635243	0.2	1 1571-1596(0.20)
gnl UG Hs#S4807872	2.15	2 40-65(2.15) 323-349(0.12)
gnl UG Hs#S2294190	2.01	4 560-586(0.82) 960-988(0.61) 1015-1042(2.01) 1457-1483(0.30)
gnl UG Hs#S5931248	1.27	1 962-988(1.27)
gnl UG Hs#S1731341	1.43	1 575-600(1.43)
gnl UG Hs#S4615158	0.77	2 542-567(0.66) 796-819(0.77)
gnl UG Hs#S1728482	0.94	2 345-370(0.94) 592-617(0.20)
gnl UG Hs#S1730052	3.26	6 381-406(0.21) 471-496(0.80) 1125-1151(2.76) 1507-1535(1.30) 1691-1717(1.17) 3630-3655(3.26)
gnl UG Hs#S1727953	3.53	2 497-522(0.40) 560-585(3.53)
gnl UG Hs#S1824413	0.21	1 316-342(0.21)
gnl UG Hs#S3439057	1.3	2 60-86(0.01) 111-136(1.30)
gnl UG Hs#S3220042	3.04	1 1099-1124(3.04)
gnl UG Hs#S14802450	2.47	4 338-364(0.62) 447-472(2.47) 515-540(0.81) 562-588(0.10)
gnl UG Hs#S1726671	0.69	1 289-314(0.69)
gnl UG Hs#S2294264	2.72	5 475-503(1.40) 789-819(0.92) 1237-1265(2.72) 1290-1315(1.07) 1322-1347(0.72)
gnl UG Hs#S15639206	0.84	1 300-325(0.84)
gnl UG Hs#S4809567	2.59	1 4673-4701(2.59)
gnl UG Hs#S3438836	1.59	1 209-235(1.59)
gnl UG Hs#S1730764	3.62	2 192-217(3.62) 236-261(1.39)
gnl UG Hs#S1731276	0.67	1 507-532(0.67)
gnl UG Hs#S3601470	3.95	8 89-116(2.36) 155-181(1.76) 622-647(2.82) 1189-1214(3.95) 1229-1257(1.02) 1299-1325(0.84) 1831-1858(0.08) 2022-2048(2.01)
gnl UG Hs#S3973054	6.29	1 721-746(6.29)
gnl UG Hs#S4045804	1.65	2 43-68(0.48) 459-484(1.65)
gnl UG Hs#S4808393	1.4	1 457-484(1.40)
gnl UG Hs#S4621186	1.87	4 281-307(0.76) 793-817(1.87) 828-854(0.94) 1044-1069(1.14)
gnl UG Hs#S1731166	1.4	1 1096-1121(1.40)

gnl UG Hs#S3219268	0.04	1	2375-2401(0.04)
gnl UG Hs#S4631396	3.4	5	579-604(0.28) 763-788(1.40) 869-894(3.40) 1302-1327(1.98) 1396-1421(2.33)
gnl UG Hs#S4824634	2.3	3	57-80(1.62) 1641-1666(0.43) 1826-1854(2.30)
gnl UG Hs#S1729691	0.3	2	1307-1333(0.30) 1334-1360(0.04)
gnl UG Hs#S5978564	0.14	1	242-267(0.14)
gnl UG Hs#S1727475	0.26	1	171-196(0.26)
gnl UG Hs#S2294431	3.39	2	2651-2676(3.39) 2725-2750(1.18)
gnl UG Hs#S2139608	3.75	6	226-251(1.87) 938-964(0.78) 1033-1059(1.04) 1153-1179(3.75) 1792-1816(0.62) 1914-1940(1.17)
gnl UG Hs#S4553566	4.63	5	87-110(0.17) 444-469(2.53) 898-924(0.71) 1345-1369(0.45) 1634-1661(4.63)
gnl UG Hs#S7110136	1.21	3	974-999(1.21) 1082-1107(0.46) 1375-1401(0.40)
gnl UG Hs#S2294205	6.18	1	1899-1925(6.18)
gnl UG Hs#S15631682	1.27	1	709-737(1.27)
gnl UG Hs#S1727255	4.85	4	2463-2488(0.40) 3114-3139(0.40) 3413-3438(4.85) 3763-3791(1.55)
gnl UG Hs#S11046639	3.2	2	322-346(3.20) 408-433(2.50)
gnl UG Hs#S10832415	2.08	3	221-248(1.02) 327-353(2.08) 411-437(0.13)
gnl UG Hs#S4044804	3.37	4	127-152(3.37) 726-751(0.23) 1690-1715(0.84) 2546-2572(3.30)
gnl UG Hs#S1729555	4.04	9	551-576(0.13) 1913-1938(4.04) 2132-2158(1.43) 2252-2280(0.58) 2775-2800(1.30) 2908-2936(0.31) 4143-4169(1.23) 4292-4317(1.98) 5294-5319(0.62)
gnl UG Hs#S14802294	2.75	1	199-224(2.75)
gnl UG Hs#S1727171	0.55	1	459-484(0.55)
gnl UG Hs#S3438697	2.91	2	97-123(2.91) 2210-2235(0.13)
gnl UG Hs#S2294182	0.23	1	932-958(0.23)
gnl UG Hs#S1730249	2.52	1	227-252(2.52)
gnl UG Hs#S1727066	0.17	1	535-560(0.17)
gnl UG Hs#S1728114	2.98	1	277-302(2.98)
gnl UG Hs#S4284979	0.3	1	35-63(0.30)
gnl UG Hs#S3219070	0.11	1	1381-1407(0.11)
gnl UG Hs#S4826014	4.04	6	52-78(0.48) 2265-2288(1.92) 2338-2363(0.90) 2377-2402(4.04) 2473-2498(0.39) 2687-2714(3.72)
gnl UG Hs#S4046031	0.04	1	1074-1100(0.04)
gnl UG Hs#S1726839	0.85	2	647-673(0.43) 1277-1304(0.85)
gnl UG Hs#S1727866	0.12	1	783-808(0.12)
gnl UG Hs#S5978639	0.14	1	135-160(0.14)
gnl UG Hs#S1972966	0.17	1	137-162(0.17)
gnl UG Hs#S1726294	0.72	1	185-208(0.72)
gnl UG Hs#S3218878	4.82	6	1065-1090(0.65) 1850-1875(4.82) 2494-2519(0.14) 2591-2616(0.04) 2744-2772(3.20) 2815-2841(0.21)
gnl UG Hs#S2140724	1.01	1	72-98(1.01)
gnl UG Hs#S3219004	3.57	1	558-583(3.57)
gnl UG Hs#S3603396	2.94	2	627-653(2.94) 766-794(0.08)
gnl UG Hs#S1731220	1.03	1	134-161(1.03)
gnl UG Hs#S1731972	0.14	1	55-79(0.14)
gnl UG Hs#S1727098	0.98	1	451-476(0.98)
gnl UG Hs#S1727986	5.5	3	156-182(0.58) 769-795(5.50) 1082-1107(0.26)
gnl UG Hs#S3988360	1.3	1	1007-1032(1.30)
gnl UG Hs#S3355664	3.01	1	644-671(3.01)
gnl UG Hs#S3355548	1.8	6	61-85(0.01) 934-958(1.30) 1165-1189(1.21) 1305-1335(1.56) 1960-1985(0.04) 2113-2138(1.80)
gnl UG Hs#S1732325	1.2	1	191-218(1.20)
gnl UG Hs#S1731611	2.04	1	467-493(2.04)
gnl UG Hs#S4392128	0.5	1	3574-3599(0.50)
gnl UG Hs#S4825491	2.3	7	389-414(0.65) 811-839(1.50) 1101-1127(0.69) 1349-1374(2.30) 1910-1936(1.12) 2257-2283(1.17) 2389-2415(0.89)
gnl UG Hs#S2293422	0.91	2	330-356(0.91) 1105-1133(0.08)
gnl UG Hs#S3803776	0.37	1	1203-1229(0.37)
gnl UG Hs#S3355469	0.74	2	277-302(0.62) 431-456(0.74)
gnl UG Hs#S5978515	4.15	2	2602-2628(1.08) 3171-3196(4.15)
gnl UG Hs#S2139490	5.3	1	955-980(5.30)
gnl UG Hs#S1731598	0.97	1	120-145(0.97)

gnl UG Hs#S3603053	1.3	1 1523-1548(1.30)
gnl UG Hs#S4807582	3.58	3 52-77(3.58) 162-187(1.14) 198-224(1.13)
gnl UG Hs#S5978546	2.5	4 143-169(2.50) 193-218(0.72) 594-619(1.20) 912-935(0.30)
gnl UG Hs#S2139685	1.62	7 173-201(1.62) 292-317(1.47) 462-488(0.08) 756-783(1.20) 921-946(0.11) 1006-1031(1.26) 1260-1284(0.26)
gnl UG Hs#S1728205	0.72	1 173-198(0.72)
gnl UG Hs#S7111706	2.14	1 466-492(2.14)
gnl UG Hs#S5978622	1.17	1 234-260(1.17)
gnl UG Hs#S4811656	4.05	5 21-47(1.27) 198-223(1.07) 799-824(2.38) 1226-1251(2.96) 1814-1839(4.05)
gnl UG Hs#S2139407	0.11	1 115-140(0.11)
gnl UG Hs#S1731369	1.17	1 420-445(1.17)
gnl UG Hs#S1730566	5.4	2 2864-2890(5.40) 2989-3014(0.08)
gnl UG Hs#S2293614	1.4	1 523-551(1.40)
gnl UG Hs#S3438269	5.27	1 603-629(5.27)
gnl UG Hs#S1728635	1.57	4 942-967(0.14) 1265-1291(1.26) 1299-1324(0.29) 1330-1356(1.57)
gnl UG Hs#S1731473	0.07	1 592-617(0.07)
gnl UG Hs#S6159056	3.08	2 323-348(3.04) 1053-1079(3.08)
gnl UG Hs#S4554511	0.82	1 274-299(0.82)
gnl UG Hs#S2139381	2.72	3 143-168(2.72) 1032-1057(1.80) 1358-1386(1.04)
gnl UG Hs#S1824434	0.54	2 2885-2909(0.54) 3569-3594(0.20)
gnl UG Hs#S1729014	0.08	1 296-324(0.08)
gnl UG Hs#S1732036	1.82	3 187-212(1.82) 357-382(0.79) 1104-1130(0.36)
gnl UG Hs#S5860363	2.15	1 1718-1744(2.15)
gnl UG Hs#S2294450	1.18	2 197-222(1.18) 600-625(0.50)
gnl UG Hs#S2140130	1.13	3 188-213(0.43) 288-313(0.57) 1055-1080(1.13)
gnl UG Hs#S3438688	3.26	3 95-121(1.71) 195-220(2.90) 451-476(3.26)
gnl UG Hs#S1728745	1.3	1 231-256(1.30)
gnl UG Hs#S1729727	6.62	7 73-98(0.36) 470-495(6.62) 657-682(1.58) 1968-1994(1.43) 2380-2406(0.21) 2585-2611(0.94) 2616-2642(0.18)
gnl UG Hs#S3603838	0.23	1 45-70(0.23)
gnl UG Hs#S4820884	0.49	2 1343-1371(0.49) 1377-1403(0.26)
gnl UG Hs#S1728709	0.94	1 798-823(0.94)
gnl UG Hs#S2140010	0.82	1 143-170(0.82)
gnl UG Hs#S472687	3.4	1 375-403(3.40)
gnl UG Hs#S3219692	2.69	2 114-140(0.00) 253-278(2.69)
gnl UG Hs#S2139817	1.4	1 151-179(1.40)
gnl UG Hs#S1726493	1.34	1 231-257(1.34)
gnl UG Hs#S3993731	3.04	4 467-493(0.51) 503-528(3.04) 860-885(0.79) 894-920(0.86)
gnl UG Hs#S3219380	2.81	2 126-151(1.15) 161-189(2.81)
gnl UG Hs#S4825345	1.3	4 118-142(1.16) 183-209(0.66) 1087-1112(1.30) 1254-1280(0.60)
gnl UG Hs#S3438524	0.45	1 573-600(0.45)
gnl UG Hs#S3219015	1.47	1 1438-1463(1.47)
gnl UG Hs#S4828603	0.01	1 28-54(0.01)
gnl UG Hs#S3601756	4.53	2 99-123(0.94) 124-151(4.53)
gnl UG Hs#S4545906	2.24	2 107-135(0.17) 336-363(2.24)
gnl UG Hs#S3601728	0.17	2 242-269(0.10) 324-349(0.17)
gnl UG Hs#S1969178	2.3	1 810-837(2.30)
gnl UG Hs#S3619214	0.1	1 607-633(0.10)
gnl UG Hs#S2139392	3.94	2 302-327(3.94) 508-533(0.26)
gnl UG Hs#S4284840	0.17	1 502-527(0.17)
gnl UG Hs#S2294523	1.24	3 155-180(1.16) 715-740(0.36) 1011-1037(1.24)
gnl UG Hs#S3993849	1.79	1 755-780(1.79)
gnl UG Hs#S4631452	0.4	2 96-122(0.03) 549-577(0.40)
gnl UG Hs#S2294477	1.8	3 189-214(1.26) 343-368(1.80) 689-715(0.13)
gnl UG Hs#S2140259	1.88	2 402-429(1.88) 618-644(1.26)
gnl UG Hs#S15631490	0.98	2 192-216(0.84) 962-987(0.98)

gnl UG Hs#S1728459	2.04	5	334-360(0.17)	461-487(0.68)	659-687(1.75)	1083-1108(1.13)	1185-1211(2.04)						
gnl UG Hs#S2140659	2.55	1	27-53(2.55)										
gnl UG Hs#S1728261	1.55	1	699-724(1.55)										
gnl UG Hs#S1726592	1.33	2	452-478(1.01)	1301-1326(1.33)									
gnl UG Hs#S4436224	3.62	1	216-242(3.62)										
gnl UG Hs#S2329495	2.33	5	702-726(1.03)	895-921(1.23)	1477-1503(0.44)	1567-1595(2.33)	2242-2266(0.23)						
gnl UG Hs#S15635186	2.91	4	472-497(1.85)	768-793(1.50)	865-891(0.11)	1164-1192(2.91)							
gnl UG Hs#S3601747	4.31	2	1238-1263(4.31)	1676-1701(1.14)									
gnl UG Hs#S14802287	5.97	3	590-615(5.97)	818-843(3.04)	857-882(1.52)								
gnl UG Hs#S4808752	0.03	1	481-509(0.03)										
gnl UG Hs#S11046744	4.92	5	66-91(0.75)	370-396(1.26)	654-679(0.19)	727-753(4.92)	1032-1058(3.89)						
gnl UG Hs#S4284717	1.65	2	58-81(1.65)	177-203(1.27)									
gnl UG Hs#S15631674	1.3	1	1016-1041(1.30)										
gnl UG Hs#S3355677	3.53	6	202-227(0.76)	2746-2771(1.58)	2880-2905(0.67)	3140-3165(3.53)	3619-3647(0.30)	3671-3696(1.07)					
gnl UG Hs#S2294198	0.85	1	88-111(0.85)										
gnl UG Hs#S3439156	0.43	1	3882-3907(0.43)										
gnl UG Hs#S3601696	8.24	1	49-74(8.24)										
gnl UG Hs#S7112158	1.98	4	1450-1475(1.98)	2604-2632(0.14)	2797-2822(0.98)	3623-3651(0.23)							
gnl UG Hs#S2138830	0.44	1	1095-1121(0.44)										
gnl UG Hs#S3219489	2.31	3	263-288(0.72)	382-408(1.50)	1036-1061(2.31)								
gnl UG Hs#S2293894	0.62	1	1137-1163(0.62)										
gnl UG Hs#S3603046	0.08	1	985-1010(0.08)										
gnl UG Hs#S4553486	1.92	2	243-268(1.87)	582-609(1.92)									
gnl UG Hs#S5931238	0.89	1	168-191(0.89)										
gnl UG Hs#S3219932	3.3	1	537-562(3.30)										
gnl UG Hs#S2294305	0.23	1	116-141(0.23)										
gnl UG Hs#S1728533	2.69	7	962-987(1.14)	1274-1300(1.50)	1651-1676(0.39)	2705-2730(0.13)	3057-3085(1.09)	3199-3228(2.65)	3271-3296(2.69)				
gnl UG Hs#S3438971	1.72	1	205-230(1.72)										
gnl UG Hs#S3619177	0.81	1	187-213(0.81)										
gnl UG Hs#S7111576	4.42	4	55-80(0.23)	478-503(1.30)	636-661(0.16)	851-879(4.42)							
gnl UG Hs#S3993743	6.94	7	159-184(1.76)	454-482(4.20)	569-596(0.07)	850-874(6.94)	1087-1112(0.98)	1238-1263(1.65)	1367-1393(2.37)				
gnl UG Hs#S3219248	3.3	11	251-276(1.14)	413-442(0.59)	519-544(0.36)	771-796(0.43)	899-924(3.30)	933-958(0.20)	1012-1037(0.11)	1326-1354(1.66)	1371-1396(0.58)	2231-2259(0.81)	3323-3348(0.07)
gnl UG Hs#S15643436	3.56	3	1249-1275(0.82)	2337-2363(2.33)	2383-2409(3.56)								
gnl UG Hs#S3603036	4.17	4	173-198(0.07)	361-386(1.41)	1649-1675(2.42)	1691-1717(4.17)							
gnl UG Hs#S1726719	4.62	4	1949-1974(0.94)	2049-2074(4.62)	3227-3255(1.97)	3782-3808(1.23)							
gnl UG Hs#S10831467	3.79	3	350-375(1.34)	404-429(3.79)	531-558(1.86)								
gnl UG Hs#S2139664	2.32	2	370-395(2.32)	781-808(1.04)									
gnl UG Hs#S3602359	0.07	1	652-679(0.07)										
gnl UG Hs#S3438861	1.78	5	61-87(0.50)	172-200(1.78)	209-235(0.62)	554-579(0.08)	861-886(0.76)						
gnl UG Hs#S1728999	3.24	9	526-551(0.62)	884-909(0.34)	922-946(3.24)	1045-1070(1.72)	2506-2531(0.84)	2867-2895(0.91)	2947-2972(1.47)	3215-3240(0.75)	3318-3344(2.17)		
gnl UG Hs#S4807957	3.34	6	168-190(0.71)	959-985(0.69)	1253-1279(3.34)	1622-1648(0.08)	2254-2280(1.23)	2296-2324(0.47)					
gnl UG Hs#S1727790	0.69	1	1988-2014(0.69)										
gnl UG Hs#S2294197	1.78	2	281-306(1.78)	1165-1190(0.14)									
gnl UG Hs#S2140244	1.72	1	282-308(1.72)										
gnl UG Hs#S1729918	1.69	2	535-560(1.24)	630-658(1.69)									
gnl UG Hs#S3333548	3.11	9	243-271(0.85)	690-715(3.11)	828-853(0.53)	901-926(1.30)	950-975(1.13)	1736-1761(0.13)	2175-2201(0.93)	2332-2360(1.46)	2724-2749(2.72)		
gnl UG Hs#S4554565	0.57	1	661-687(0.57)										
gnl UG Hs#S5978791	1.3	2	506-531(0.39)	2371-2396(1.30)									
gnl UG Hs#S3602303	0.08	1	148-173(0.08)										
gnl UG Hs#S1732457	1.07	3	49-74(1.07)	385-409(0.30)	443-468(0.98)								
gnl UG Hs#S2294219	2.53	3	240-266(2.53)	571-597(0.69)	639-664(2.23)								
gnl UG Hs#S2294611	1.5	1	213-239(1.50)										
gnl UG Hs#S1732266	1.98	3	521-549(1.98)	1110-1134(0.10)	1312-1337(0.55)								
gnl UG Hs#S1728429	1.72	4	132-155(0.43)	513-538(1.72)	629-654(0.62)	1197-1223(0.40)							

gnl UG Hs#S3438791	2.3	4	45-70(0.07) 114-140(0.36) 147-173(2.30) 180-204(0.45)
gnl UG Hs#S4553479	0.41	1	936-961(0.41)
gnl UG Hs#S1732395	2.04	1	1409-1434(2.04)
gnl UG Hs#S1730106	1.42	2	78-104(0.56) 1385-1413(1.42)
gnl UG Hs#S4807791	1.39	1	1200-1225(1.39)
gnl UG Hs#S4044873	0.56	1	722-747(0.56)
gnl UG Hs#S3219764	2.04	1	509-534(2.04)
gnl UG Hs#S11046697	0.5	1	1030-1056(0.50)
gnl UG Hs#S3602295	3.08	4	96-121(3.08) 122-147(0.13) 476-502(1.07) 506-532(1.01)
gnl UG Hs#S15640174	4.62	3	1422-1448(0.62) 2354-2382(0.18) 2892-2917(4.62)
gnl UG Hs#S1824335	1.9	3	386-411(1.90) 547-574(0.36) 993-1018(0.79)
gnl UG Hs#S2293876	0.07	1	81-108(0.07)
gnl UG Hs#S2138846	2.36	4	256-281(2.36) 314-342(1.45) 455-481(0.91) 741-767(0.50)
gnl UG Hs#S1729361	0.76	1	376-402(0.76)
gnl UG Hs#S1726513	3.61	5	322-347(0.75) 1194-1219(2.39) 1367-1393(1.07) 1665-1691(1.17) 2075-2100(3.61)
gnl UG Hs#S1731293	5.65	2	82-110(1.03) 309-334(5.65)
gnl UG Hs#S2293478	1.39	1	122-147(1.39)
gnl UG Hs#S3219744	3.13	1	1292-1317(3.13)
gnl UG Hs#S3439812	2.53	5	87-112(1.29) 395-423(0.30) 439-467(0.49) 511-536(0.97) 963-988(2.53)
gnl UG Hs#S3601654	4.36	5	815-840(1.30) 953-978(4.36) 1259-1284(0.90) 1606-1631(2.57) 1667-1692(0.20)
gnl UG Hs#S1731355	0.17	1	278-306(0.17)
gnl UG Hs#S3219798	0.98	2	678-703(0.98) 957-982(0.55)
gnl UG Hs#S2294255	2.78	2	76-101(2.78) 1365-1393(1.07)
gnl UG Hs#S4807558	0.33	1	105-131(0.33)
gnl UG Hs#S4825083	0.76	1	449-475(0.76)
gnl UG Hs#S2294411	5.78	5	86-111(5.78) 217-242(1.72) 316-342(0.63) 723-751(0.24) 865-890(1.94)
gnl UG Hs#S1726337	0.94	1	709-734(0.94)
gnl UG Hs#S3601502	2.3	1	662-688(2.30)
gnl UG Hs#S3218920	0.34	2	404-427(0.34) 433-458(0.24)
gnl UG Hs#S1727017	4.08	2	1941-1964(1.31) 2012-2038(4.08)
gnl UG Hs#S1728781	1.72	1	218-243(1.72)
gnl UG Hs#S3219522	2.8	13	189-214(0.32) 642-665(2.30) 720-745(2.21) 1181-1209(0.66) 1231-1259(2.66) 1401-1427(1.84) 1440-1465(2.80) 1476-1504(0.30) 1560-1586(1.32) 1597-1622(0.40) 1742-1769(0.27) 2208-2233(0.14)
gnl UG Hs#S3438120	3.99	5	731-757(0.09) 956-982(3.99) 1255-1281(0.17) 1533-1559(0.66) 1819-1845(0.85)
gnl UG Hs#S2140630	0.81	1	92-120(0.81)
gnl UG Hs#S1727019	3.39	1	2115-2140(3.39)
gnl UG Hs#S3219970	1.17	1	282-307(1.17)
gnl UG Hs#S2293579	3.3	1	419-445(3.30)
gnl UG Hs#S1726475	0.63	1	500-525(0.63)
gnl UG Hs#S1728773	2.58	2	258-283(1.24) 455-481(2.58)
gnl UG Hs#S3219825	2.39	7	63-89(1.91) 157-182(1.43) 378-404(0.08) 859-887(1.49) 960-985(1.36) 1412-1437(2.39) 1585-1611(0.66)
gnl UG Hs#S3973074	7.62	8	334-360(1.81) 474-499(0.22) 506-532(7.62) 553-576(1.51) 697-723(0.93) 1289-1314(0.81) 1542-1567(0.57) 1782-1805(0.40)
gnl UG Hs#S6091853	1.5	2	732-757(1.50) 1488-1514(0.50)
gnl UG Hs#S15644498	0.77	1	311-336(0.77)
gnl UG Hs#S1726950	0.29	1	413-438(0.29)
gnl UG Hs#S2140109	1.1	4	447-473(0.92) 1309-1334(0.07) 1909-1934(0.75) 2354-2381(1.10)
gnl UG Hs#S2139776	2.17	1	2038-2064(2.17)
gnl UG Hs#S5978600	4.08	4	238-265(0.91) 526-551(1.04) 656-681(0.34) 1164-1190(4.08)
gnl UG Hs#S1731817	1.05	2	746-773(0.79) 1005-1032(1.05)
gnl UG Hs#S4807846	0.57	1	868-894(0.57)
gnl UG Hs#S1729294	1.98	3	1143-1168(1.89) 1964-1990(1.23) 2145-2171(1.98)
gnl UG Hs#S4435740	1.8	5	1-25(1.80) 99-127(1.27) 242-270(1.76) 2281-2307(1.40) 2344-2370(1.27)
gnl UG Hs#S1727352	1.22	3	246-272(0.40) 312-339(1.22) 1218-1247(0.61)
gnl UG Hs#S1729629	2.49	2	60-85(0.50) 310-335(2.49)
gnl UG Hs#S15115707	2.79	2	336-361(1.89) 775-800(2.79)

gnl UG Hs#S1970039	1.04	3	115-140(0.20) 425-450(0.34) 515-540(1.04)
gnl UG Hs#S3987204	1.4	2	325-350(1.40) 655-683(0.42)
gnl UG Hs#S1729536	0.94	3	2257-2282(0.94) 3263-3289(0.36) 4141-4167(0.71)
gnl UG Hs#S1731776	0.13	1	451-476(0.13)
gnl UG Hs#S5518206	1.07	1	125-152(1.07)
gnl UG Hs#S15730318	4.04	6	627-652(4.04) 741-767(0.52) 1424-1449(2.89) 2191-2219(1.07) 2385-2410(1.07) 2431-2456(0.57)
gnl UG Hs#S7111971	1.67	1	967-992(1.67)
gnl UG Hs#S4545752	0.84	1	1171-1196(0.84)
gnl UG Hs#S11046638	1.82	2	826-852(0.82) 876-901(1.82)
gnl UG Hs#S2139238	4.21	1	21-46(4.21)
gnl UG Hs#S4824552	2.45	1	95-122(2.45)
gnl UG Hs#S1727503	4.94	1	99-124(4.94)
gnl UG Hs#S2138779	1.24	1	50-76(1.24)
gnl UG Hs#S5495035	1.89	2	64-89(1.89) 383-408(0.82)
gnl UG Hs#S1729855	1.82	3	77-103(0.30) 436-464(0.52) 685-711(1.82)
gnl UG Hs#S4554635	1.2	1	287-312(1.20)
gnl UG Hs#S1726996	0.82	2	143-168(0.26) 365-390(0.82)
gnl UG Hs#S3219625	1.85	3	318-342(1.11) 576-601(1.85) 1399-1424(0.72)
gnl UG Hs#S3547221	1.42	3	816-842(0.59) 1330-1355(0.23) 1362-1390(1.42)
gnl UG Hs#S15632766	1.37	3	930-955(0.13) 1249-1274(1.37) 1410-1435(0.53)
gnl UG Hs#S2140166	0.94	1	15-41(0.94)
gnl UG Hs#S2138785	2.62	1	243-268(2.62)
gnl UG Hs#S1732115	0.24	1	1348-1371(0.24)
gnl UG Hs#S2140311	0.58	1	176-202(0.58)
gnl UG Hs#S1731965	0.08	1	1224-1249(0.08)
gnl UG Hs#S1731201	0.04	1	200-225(0.04)
gnl UG Hs#S1728043	3.01	3	741-767(3.01) 975-999(1.78) 1250-1277(0.30)
gnl UG Hs#S3355622	0.14	1	256-279(0.14)
gnl UG Hs#S4283980	0.82	2	625-650(0.82) 933-958(0.72)
gnl UG Hs#S15631795	4.62	7	240-265(4.40) 351-376(0.65) 580-605(0.12) 672-698(0.23) 1708-1733(3.17) 1883-1908(0.04) 2233-2258(4.62)
gnl UG Hs#S1090731	1.08	3	3017-3042(0.17) 3632-3657(1.08) 4122-4148(0.07)
gnl UG Hs#S4825584	2.46	1	253-278(2.46)
gnl UG Hs#S1726478	0.27	1	417-442(0.27)
gnl UG Hs#S3547207	1.04	1	461-487(1.04)
gnl UG Hs#S1824269	4.26	1	212-237(4.26)
gnl UG Hs#S2140055	0.62	1	233-257(0.62)
gnl UG Hs#S1824322	0.91	1	258-283(0.91)
gnl UG Hs#S2294468	1.43	3	174-200(1.43) 422-447(0.68) 480-506(0.58)
gnl UG Hs#S3603136	1.72	1	122-147(1.72)
gnl UG Hs#S14272960	3.85	7	1369-1394(3.85) 1416-1441(0.33) 1450-1475(3.45) 1577-1602(1.81) 1638-1663(0.23) 1812-1838(3.65) 2247-2273(0.76)
gnl UG Hs#S15631486	3.13	1	1034-1059(3.13)
gnl UG Hs#S5516851	5.24	2	276-301(3.73) 899-924(5.24)
gnl UG Hs#S4807749	0.57	3	1301-1326(0.03) 1402-1427(0.57) 1516-1542(0.07)
gnl UG Hs#S4046151	0.62	1	556-582(0.62)
gnl UG Hs#S1732180	2.94	7	63-85(0.35) 645-670(0.78) 1144-1170(2.72) 1506-1532(0.72) 1477-1502(0.08) 1588-1612(0.43) 1739-1764(2.94)
gnl UG Hs#S1732275	0.13	1	157-182(0.13)
gnl UG Hs#S3546996	2.36	3	10-33(2.36) 120-146(1.50) 356-381(0.50)
gnl UG Hs#S4807973	4.3	2	96-121(0.36) 876-902(4.30)
gnl UG Hs#S4618725	2.52	3	302-327(0.36) 461-485(2.52) 532-557(0.52)
gnl UG Hs#S6683086	0.36	2	605-630(0.36) 1225-1250(0.26)
gnl UG Hs#S14802364	1.3	3	149-177(0.40) 444-469(1.30) 903-928(0.50)
gnl UG Hs#S1726530	1.11	1	719-744(1.11)
gnl UG Hs#S6693357	2.43	3	166-191(2.20) 1796-1821(2.43) 1874-1900(1.93)
gnl UG Hs#S3335308	0.44	1	422-448(0.44)

gnl UG Hs#S3438768	1.49	2	147-172(0.75)	306-332(1.49)
gnl UG Hs#S2293417	0.3	1	948-976(0.30)	
gnl UG Hs#S1726793	1.98	1	146-172(1.98)	
gnl UG Hs#S3219084	0.26	1	921-947(0.26)	
gnl UG Hs#S4620980	0.23	1	921-947(0.23)	
gnl UG Hs#S3988042	3.78	1	93-118(3.78)	
gnl UG Hs#S11046601	1.82	1	69-94(1.82)	
gnl UG Hs#S2332996	1.01	2	543-568(1.01)	783-808(0.17)
gnl UG Hs#S2139271	2.46	10	124-152(0.42)	296-323(0.20) 462-487(0.04) 569-594(1.85) 596-621(1.37) 1001-1027(0.50) 1037-1062(0.84) 1411-1439(1.40) 1475-1500(2.46) 1987-2012(0.46)
gnl UG Hs#S3547267	3.11	1	147-172(3.11)	
gnl UG Hs#S1727324	0.07	1	733-757(0.07)	
gnl UG Hs#S7110720	0.84	1	878-904(0.84)	
gnl UG Hs#S3547233	0.07	1	84-109(0.07)	
gnl UG Hs#S4824971	3.15	3	90-116(2.59)	119-147(0.15) 223-248(3.15)
gnl UG Hs#S11046683	4.82	6	709-734(4.82)	831-857(0.23) 915-942(0.45) 952-980(3.13) 1474-1499(2.80) 2552-2577(1.13)
gnl UG Hs#S3218893	0.57	1	265-290(0.57)	
gnl UG Hs#S4807529	3.88	2	45-68(2.75)	251-274(3.88)
gnl UG Hs#S1727626	0.98	2	155-180(0.76)	237-263(0.98)
gnl UG Hs#S2139418	0.66	1	2795-2820(0.66)	
gnl UG Hs#S11046743	1.81	3	1126-1150(0.97)	1349-1374(1.81) 1639-1665(0.52)
gnl UG Hs#S1729078	1.03	1	64-89(1.03)	
gnl UG Hs#S4807544	0.94	2	1162-1188(0.94)	1834-1859(0.66)
gnl UG Hs#S3219926	2.62	6	306-331(1.72)	613-639(0.69) 646-669(0.08) 880-905(2.62) 1032-1058(1.50) 1074-1102(1.97)
gnl UG Hs#S2139018	0.34	1	1595-1622(0.34)	
gnl UG Hs#S3438843	0.95	4	1021-1047(0.27)	1080-1105(0.39) 1558-1584(0.95) 2063-2088(0.68)
gnl UG Hs#S14812986	5.46	6	625-650(5.46)	958-983(3.89) 998-1021(2.31) 1034-1060(3.04) 1258-1283(0.30) 1309-1336(0.86)
gnl UG Hs#S1727223	2.46	1	667-692(2.46)	
gnl UG Hs#S3322125	0.04	1	615-640(0.04)	
gnl UG Hs#S1729263	1.08	2	221-247(1.08)	367-393(0.40)
gnl UG Hs#S4811521	0.21	1	311-337(0.21)	
gnl UG Hs#S3438691	0.72	1	257-285(0.72)	
gnl UG Hs#S2138854	3.11	4	98-126(0.71)	539-565(3.11) 626-654(1.47) 1395-1420(1.46)
gnl UG Hs#S1728085	0.4	1	992-1017(0.40)	
gnl UG Hs#S4831044	5.3	7	381-409(5.30)	486-511(0.55) 1309-1334(0.32) 2977-3002(0.03) 3265-3289(1.90) 3878-3903(0.17) 3968-3993(1.75)
gnl UG Hs#S2139053	4.66	2	17-45(4.66)	2627-2652(0.30)
gnl UG Hs#S1728592	2.36	2	419-445(2.34)	821-847(2.36)
gnl UG Hs#S3542723	0.3	1	347-372(0.30)	
gnl UG Hs#S14802254	3.31	1	4327-4353(3.31)	
gnl UG Hs#S1824449	1.26	2	172-198(0.04)	364-389(1.26)
gnl UG Hs#S2139637	3.3	7	34-59(0.40)	319-344(3.11) 464-492(2.85) 702-730(2.07) 976-1001(0.62) 2492-2516(0.05) 2601-2626(3.30)
gnl UG Hs#S2139338	0.49	3	726-751(0.15)	1541-1566(0.20) 1847-1872(0.49)
gnl UG Hs#S1971616	5.19	3	1905-1930(0.65)	2173-2198(5.19) 2216-2240(0.40)
gnl UG Hs#S1729042	0.42	1	709-731(0.42)	
gnl UG Hs#S3218917	5.23	16	89-114(0.91)	257-282(0.98) 854-879(0.05) 1335-1363(1.25) 1904-1929(1.57) 2299-2326(1.24) 2911-2938(1.98) 3952-3977(0.40) 4049-4075(1.43) 4585-4610(2.72) 4832-4861(0.39) 4899-4927(1.47)
gnl UG Hs#S3219858	1.39	1	380-405(1.39)	
gnl UG Hs#S2294061	0.68	1	2551-2576(0.68)	
gnl UG Hs#S1729049	4.36	7	1864-1892(1.71)	1894-1919(0.69) 2082-2107(0.72) 2249-2277(0.24) 2883-2909(0.36) 2971-2999(0.07) 3042-3067(4.36)
gnl UG Hs#S14272716	1.23	3	154-179(1.23)	629-654(0.14) 819-842(0.50)
gnl UG Hs#S4621237	0.3	1	105-130(0.30)	
gnl UG Hs#S2294201	6.18	1	1899-1925(6.18)	
gnl UG Hs#S4546306	1.18	1	708-733(1.18)	
gnl UG Hs#S7105127	2.5	1	492-517(2.50)	
gnl UG Hs#S15641167	5.21	3	1332-1358(3.82)	1359-1384(5.21) 1554-1578(1.32)
gnl UG Hs#S15633294	0.12	1	490-516(0.12)	

gnl UG Hs#S10832589	2.5	4	602-627(1.06) 709-734(2.43) 1540-1565(2.50) 2007-2032(1.33)
gnl UG Hs#S1729108	0.79	1	21-47(0.79)
gnl UG Hs#S1730390	0.72	4	1384-1412(0.17) 1718-1743(0.72) 1793-1817(0.04) 2360-2388(0.49)
gnl UG Hs#S11590921	1.98	2	1555-1580(1.98) 2334-2359(1.30)
gnl UG Hs#S2139640	2.56	6	138-164(0.46) 197-222(0.98) 303-329(1.50) 645-672(0.52) 1397-1423(2.56) 3157-3182(1.58)
gnl UG Hs#S1727399	5.03	5	241-266(0.56) 364-389(1.50) 1165-1190(5.03) 1469-1495(2.65) 1512-1538(1.58)
gnl UG Hs#S3322094	2.08	2	781-806(0.98) 978-1004(2.08)
gnl UG Hs#S3219208	0.7	2	1768-1793(0.24) 2051-2077(0.70)
gnl UG Hs#S1728885	2.49	2	86-114(2.49) 588-614(0.57)
gnl UG Hs#S1728948	5	4	78-103(0.23) 182-207(2.98) 212-237(5.00) 889-917(0.85)
gnl UG Hs#S7110802	0.56	1	959-985(0.56)
gnl UG Hs#S3603170	0.33	1	136-162(0.33)
gnl UG Hs#S1729639	1.4	2	60-86(1.40) 959-987(1.40)
gnl UG Hs#S4392125	3.19	6	29-54(3.19) 294-318(0.08) 353-378(2.45) 511-539(0.62) 642-667(0.69) 729-754(0.57)
gnl UG Hs#S1731237	2.08	1	1946-1972(2.08)
gnl UG Hs#S1726351	0.56	2	401-427(0.56) 1083-1111(0.01)
gnl UG Hs#S4828261	2.46	2	105-130(2.46) 399-427(0.42)
gnl UG Hs#S5516717	0.23	1	211-237(0.23)
gnl UG Hs#S1728486	1.91	7	256-281(0.04) 452-477(0.14) 1433-1458(1.40) 1535-1560(1.91) 1567-1592(0.19) 1596-1621(1.68) 2525-2550(0.53)
gnl UG Hs#S1727372	0.88	1	926-954(0.88)
gnl UG Hs#S1731374	0.88	2	30-56(0.88) 637-662(0.08)
gnl UG Hs#S2139720	0.71	2	98-123(0.43) 162-191(0.71)
gnl UG Hs#S15631494	0.68	2	439-464(0.68) 1574-1600(0.23)
gnl UG Hs#S3218889	4.94	11	936-964(3.23) 1005-1030(1.36) 1245-1270(4.94) 2339-2364(1.07) 2426-2454(0.64) 2501-2526(0.26) 5076-5103(1.66) 6303-6328(1.46) 6505-6528(1.97) 6694-6719(1.17) 6944-6969(2.72)
gnl UG Hs#S4553838	0.46	1	578-605(0.46)
gnl UG Hs#S14802304	1.52	4	85-106(0.66) 288-316(0.42) 384-409(1.52) 917-942(0.50)
gnl UG Hs#S2293632	1.82	3	364-388(1.82) 1005-1030(0.74) 1415-1443(0.30)
gnl UG Hs#S1728026	4.17	5	231-256(3.23) 1014-1039(4.17) 1136-1161(0.32) 1444-1469(1.53) 1838-1864(0.17)
gnl UG Hs#S2138845	2.57	1	202-227(2.57)
gnl UG Hs#S10832604	4.13	2	562-588(0.07) 664-689(4.13)
gnl UG Hs#S2140565	0.13	1	1349-1374(0.13)
gnl UG Hs#S3940082	0.33	2	634-658(0.33) 686-714(0.01)
gnl UG Hs#S4810123	3.07	2	289-314(3.07) 505-530(0.43)
gnl UG Hs#S3438636	0.3	1	480-505(0.30)
gnl UG Hs#S2294372	0.23	1	97-122(0.23)
gnl UG Hs#S2293923	0.44	2	334-361(0.44) 909-934(0.07)
gnl UG Hs#S6159047	2.72	1	392-416(2.72)
gnl UG Hs#S4816548	1.07	1	141-169(1.07)
gnl UG Hs#S1731444	0.2	1	489-514(0.20)
gnl UG Hs#S4820533	3.4	1	670-696(3.40)
gnl UG Hs#S1727880	1.24	1	742-768(1.24)
gnl UG Hs#S4829134	2.9	4	273-299(1.56) 1519-1544(2.90) 1593-1618(1.30) 1693-1719(0.36)
gnl UG Hs#S2293771	5.11	4	182-207(5.11) 389-414(2.75) 905-930(0.07) 960-985(4.89)
gnl UG Hs#S2140474	4.53	11	101-126(0.33) 270-294(0.58) 604-629(0.75) 891-916(1.15) 1337-1364(0.49) 1435-1461(0.52) 1482-1511(0.21) 1711-1739(1.33) 1991-2016(0.50) 2049-2074(4.53) 2180-2205(2.11)
gnl UG Hs#S1730399	2.82	2	644-670(2.82) 766-793(0.37)
gnl UG Hs#S2138725	1.34	2	75-100(1.26) 204-230(1.34)
gnl UG Hs#S4816155	0.44	1	164-190(0.44)
gnl UG Hs#S1972932	1.52	2	1050-1076(1.52) 1796-1822(1.07)
gnl UG Hs#S4546033	0.94	1	259-287(0.94)
gnl UG Hs#S4002128	1.4	1	322-347(1.40)
gnl UG Hs#S1728515	3.84	3	140-166(3.04) 198-225(3.84) 453-479(1.27)
gnl UG Hs#S3547243	2.46	7	159-184(2.46) 454-479(1.17) 1574-1600(0.91) 1901-1927(1.79) 2246-2271(0.20) 2318-2344(1.81) 2472-2498(1.23)
gnl UG Hs#S2139301	2.13	2	55-80(2.13) 503-528(0.62)
gnl UG Hs#S2139191	2.98	3	153-181(2.98) 205-231(1.01) 249-275(2.30)

gnl UG Hs#S4820209	1.72	4	544-569(0.94) 615-643(0.08) 897-922(0.68) 1751-1776(1.72)
gnl UG Hs#S1728139	0.36	2	132-157(0.36) 406-435(0.09)
gnl UG Hs#S4815004	2.98	2	614-639(2.98) 1537-1562(0.09)
gnl UG Hs#S1730307	3.47	3	120-147(3.47) 650-676(2.62) 906-931(2.36)
gnl UG Hs#S1727645	0.97	3	556-581(0.57) 1156-1184(0.97) 1284-1310(0.23)
gnl UG Hs#S4814706	1.53	2	459-484(1.53) 492-517(0.25)
gnl UG Hs#S2139473	2.97	3	483-508(2.72) 995-1024(2.97) 1167-1192(1.11)
gnl UG Hs#S3219271	3.17	3	429-452(0.34) 834-859(3.17) 942-967(0.66)
gnl UG Hs#S4812188	0.72	1	211-236(0.72)
gnl UG Hs#S4621491	0.75	1	405-430(0.75)
gnl UG Hs#S1730341	0.04	1	712-737(0.04)
gnl UG Hs#S4631159	1.94	1	483-508(1.94)
gnl UG Hs#S1726883	0.72	1	158-182(0.72)
gnl UG Hs#S1726509	2.17	2	125-150(2.04) 241-267(2.17)
gnl UG Hs#S1728184	1.26	2	480-505(1.26) 564-589(0.65)
gnl UG Hs#S6158972	0.75	1	433-456(0.75)
gnl UG Hs#S7112079	1.46	2	502-529(1.46) 809-836(0.86)
gnl UG Hs#S2293345	1.68	1	712-739(1.68)
gnl UG Hs#S3601633	2.62	3	15-40(1.24) 827-852(0.98) 1025-1050(2.62)
gnl UG Hs#S1729869	0.48	1	252-277(0.48)
gnl UG Hs#S4545933	0.08	1	351-379(0.08)
gnl UG Hs#S11046736	3.36	2	900-925(3.36) 1837-1865(3.20)
gnl UG Hs#S1726838	3.11	1	738-763(3.11)
gnl UG Hs#S4045150	3.21	4	129-154(0.98) 1260-1284(1.07) 2286-2310(0.80) 3291-3317(3.21)
gnl UG Hs#S4046358	2.8	2	398-423(2.80) 592-617(2.50)
gnl UG Hs#S4822618	0.35	1	232-256(0.35)
gnl UG Hs#S4546130	4.24	2	109-135(0.08) 850-875(4.24)
gnl UG Hs#S1731649	0.59	2	40-65(0.50) 589-617(0.59)
gnl UG Hs#S11046544	0.67	1	82-108(0.67)
gnl UG Hs#S3619572	1.46	2	43-67(1.46) 214-240(0.91)
gnl UG Hs#S3219959	1.97	2	252-278(1.97) 935-960(0.30)
gnl UG Hs#S3547230	3.25	2	263-289(0.51) 654-682(3.25)
gnl UG Hs#S2140176	1.74	2	330-354(1.74) 360-385(0.30)
gnl UG Hs#S1730255	0.43	1	820-845(0.43)
gnl UG Hs#S1729110	1.62	2	140-165(0.39) 446-473(1.62)
gnl UG Hs#S4807815	4.62	6	320-344(1.67) 580-606(1.11) 1112-1140(0.71) 1332-1357(4.62) 1371-1396(0.91) 1458-1483(0.74)
gnl UG Hs#S1731584	0.82	2	265-290(0.82) 475-500(0.82)
gnl UG Hs#S1727480	1.4	2	218-246(1.40) 1076-1101(0.91)
gnl UG Hs#S1730537	0.07	1	294-319(0.07)
gnl UG Hs#S1729274	3.97	6	137-161(0.42) 378-404(0.89) 532-557(3.97) 811-839(0.49) 1565-1591(0.86) 1866-1894(1.30)
gnl UG Hs#S1727521	1.85	1	131-156(1.85)
gnl UG Hs#S3219779	4.04	2	69-94(4.04) 169-195(0.46)
gnl UG Hs#S4435696	1.81	3	789-814(0.02) 847-873(1.81) 982-1010(0.88)
gnl UG Hs#S2140713	0.01	1	1883-1908(0.01)
gnl UG Hs#S3987166	1.89	1	300-325(1.89)
gnl UG Hs#S12743749	0.57	2	42-70(0.20) 245-271(0.57)
gnl UG Hs#S3438519	1.53	1	150-175(1.53)
gnl UG Hs#S4808845	1.8	3	290-318(1.14) 1524-1549(1.80) 2001-2029(0.14)
gnl UG Hs#S1824502	0.2	1	118-143(0.20)
gnl UG Hs#S1729840	1.17	1	59-84(1.17)
gnl UG Hs#S3438852	3.88	1	642-666(3.88)
gnl UG Hs#S1729319	0.65	1	381-406(0.65)
gnl UG Hs#S15636696	0.08	1	72-100(0.08)
gnl UG Hs#S14802454	0.91	5	670-695(0.23) 802-830(0.56) 1576-1604(0.01) 1655-1683(0.46) 1735-1760(0.91)

gnl UG Hs#S1729668	1.98	7 172-197(1.98) 198-224(1.72) 336-364(1.35) 496-521(0.60) 856-884(0.59) 1192-1217(0.21) 1427-1453(0.36)
gnl UG Hs#S1732161	2.11	1 264-289(2.11)
gnl UG Hs#S7111354	1.87	2 1052-1076(1.87) 1302-1329(0.11)
gnl UG Hs#S5495008	2.01	2 222-248(2.01) 541-569(1.95)
gnl UG Hs#S3619535	1.67	5 245-271(1.67) 966-991(0.90) 995-1020(1.46) 1366-1393(0.43) 1567-1592(0.48)
gnl UG Hs#S4807758	0.04	1 147-172(0.04)
gnl UG Hs#S3905477	3.36	2 1265-1291(3.36) 1603-1628(0.58)
gnl UG Hs#S1730920	4.79	1 44-72(4.79)
gnl UG Hs#S3440087	2.45	5 30-55(1.89) 144-168(0.03) 201-227(0.69) 427-449(1.26) 656-682(2.45)
gnl UG Hs#S3219797	3.11	7 267-293(1.69) 649-674(0.94) 689-714(2.94) 846-870(0.19) 1394-1420(0.27) 1607-1632(0.62) 1650-1676(3.11)
gnl UG Hs#S1730386	1.39	1 1004-1031(1.39)
gnl UG Hs#S4815100	0.38	1 310-335(0.38)
gnl UG Hs#S1729102	1.18	2 94-122(1.18) 735-760(0.14)
gnl UG Hs#S2139797	2.23	1 65-90(2.23)
gnl UG Hs#S4046013	2.3	5 21-46(1.24) 89-114(0.78) 244-270(1.01) 341-367(2.30) 642-667(1.35)
gnl UG Hs#S1731853	0.04	1 650-678(0.04)
gnl UG Hs#S4807536	1.56	1 457-482(1.56)
gnl UG Hs#S2139523	3.43	6 957-982(0.40) 2001-2026(1.86) 2459-2484(3.43) 2535-2561(0.40) 3053-3078(1.50) 3369-3394(2.57)
gnl UG Hs#S1727363	3.4	2 814-842(0.23) 1274-1300(3.40)
gnl UG Hs#S4821664	4.04	4 271-295(0.19) 350-376(0.91) 377-405(0.94) 866-891(4.04)
gnl UG Hs#S4814875	0.04	1 30-56(0.04)
gnl UG Hs#S1731032	3.3	1 496-522(3.30)
gnl UG Hs#S892219	4.55	5 1016-1042(0.50) 1402-1428(0.37) 3933-3960(3.97) 4020-4045(4.55) 4795-4820(2.17)
gnl UG Hs#S2139158	1.21	1 333-358(1.21)
gnl UG Hs#S1728165	0.58	1 66-91(0.58)
gnl UG Hs#S4621109	3.36	6 453-479(1.30) 483-508(3.36) 544-572(1.52) 672-698(2.21) 1115-1140(0.66) 1597-1623(1.21)
gnl UG Hs#S2140083	0.62	2 570-593(0.40) 609-635(0.62)
gnl UG Hs#S2139339	0.14	1 350-376(0.14)
gnl UG Hs#S5978446	2.82	4 669-697(1.07) 750-775(2.82) 791-816(2.15) 1009-1034(0.58)
gnl UG Hs#S4807805	0.62	2 880-905(0.46) 1036-1061(0.62)
gnl UG Hs#S4620500	2.86	6 151-179(0.40) 477-504(2.86) 656-682(0.17) 1529-1552(0.40) 1575-1602(0.57) 1617-1643(1.30)
gnl UG Hs#S15631634	1.79	1 559-583(1.79)
gnl UG Hs#S4825997	4.91	3 501-526(0.08) 1805-1831(4.91) 1881-1907(0.49)
gnl UG Hs#S1729052	0.17	2 132-157(0.17) 444-470(0.08)
gnl UG Hs#S2138764	1.88	3 836-864(1.88) 1108-1136(0.27) 1635-1660(0.05)
gnl UG Hs#S1727654	0.81	1 1193-1221(0.81)
gnl UG Hs#S2293220	0.2	1 1075-1100(0.20)
gnl UG Hs#S3219449	3.63	1 2480-2505(3.63)
gnl UG Hs#S3218963	0.3	1 293-316(0.30)
gnl UG Hs#S2293731	0.17	1 620-646(0.17)
gnl UG Hs#S15730329	0.79	1 732-757(0.79)
gnl UG Hs#S2293927	3.57	2 601-626(3.57) 675-699(1.47)
gnl UG Hs#S2139084	2.94	6 42-68(2.94) 117-142(1.14) 314-340(2.30) 347-373(0.37) 620-645(1.53) 646-671(1.56)
gnl UG Hs#S4813218	0.57	1 163-186(0.57)
gnl UG Hs#S6163385	1.07	2 154-182(1.07) 516-543(0.82)
gnl UG Hs#S4631305	3.79	2 156-181(1.98) 264-289(3.79)
gnl UG Hs#S10832339	0.72	1 512-537(0.72)
gnl UG Hs#S1728548	2.43	1 142-166(2.43)
gnl UG Hs#S4807966	1.56	1 1339-1364(1.56)
gnl UG Hs#S1727812	2.56	3 1775-1800(0.30) 3203-3228(1.63) 5231-5256(2.56)
gnl UG Hs#S3219782	2.91	6 592-618(1.46) 913-938(0.82) 1090-1115(2.91) 1670-1695(0.46) 1704-1729(1.81) 2035-2060(1.30)
gnl UG Hs#S1732171	3.5	1 585-613(3.50)
gnl UG Hs#S7112377	0.59	2 158-183(0.33) 562-587(0.59)
gnl UG Hs#S1726692	1.82	2 650-675(1.82) 1049-1078(0.78)

gnl UG Hs#S2293257	0.33	1 226-254(0.33)
gnl UG Hs#S15633552	3.04	3 467-493(3.04) 512-538(0.72) 1499-1523(0.67)
gnl UG Hs#S3880629	5.16	13 149-175(2.50) 584-609(0.84) 647-672(5.16) 1138-1164(2.56) 1283-1307(2.65) 1570-1595(0.46) 2242-2267(0.52) 2743-2768(2.49) 2801-2829(1.30) 2927-2955(0.40) 4210-4234(0.87) 4278-4303(0.3)
gnl UG Hs#S2140227	0.45	1 15-43(0.45)
gnl UG Hs#S4810907	0.66	1 743-769(0.66)
gnl UG Hs#S5860333	1.4	2 774-799(0.13) 1274-1301(1.40)
gnl UG Hs#S15640017	2.46	2 386-412(2.46) 501-526(1.07)
gnl UG Hs#S4046182	4.53	8 789-815(1.10) 1181-1206(3.26) 2628-2653(1.53) 2790-2815(1.59) 3096-3122(2.65) 3125-3150(0.17) 3268-3296(1.16) 3603-3629(4.53)
gnl UG Hs#S1731127	3.62	2 40-66(0.75) 671-697(3.62)
gnl UG Hs#S3619291	3.06	3 1121-1147(3.06) 2112-2140(0.14) 2653-2679(0.36)
gnl UG Hs#S1727004	0.07	1 832-857(0.07)
gnl UG Hs#S1729984	3.3	3 21-47(3.30) 66-94(0.23) 321-349(0.71)
gnl UG Hs#S4621602	5.37	9 1205-1230(0.79) 1356-1381(1.57) 1414-1439(1.62) 1654-1679(5.37) 1704-1728(2.14) 2147-2173(0.62) 3239-3262(0.37) 3995-4020(3.04) 4346-4371(1.01)
gnl UG Hs#S1730722	3.94	1 719-744(3.94)
gnl UG Hs#S3619249	3.08	1 1238-1264(3.08)
gnl UG Hs#S3220083	4.14	3 1407-1433(3.17) 2175-2200(4.14) 3459-3487(0.77)
gnl UG Hs#S1731800	3.46	9 97-122(0.20) 245-271(3.46) 801-826(0.94) 844-870(0.30) 952-977(0.46) 1242-1270(1.40) 1338-1361(0.24) 1431-1457(2.33) 1513-1539(2.24)
gnl UG Hs#S7112731	5.69	1 1325-1350(5.69)
gnl UG Hs#S4813233	1.3	1 1198-1223(1.30)
gnl UG Hs#S1729383	1.17	2 24-50(1.17) 241-269(0.81)
gnl UG Hs#S2139141	0.85	1 578-604(0.85)
gnl UG Hs#S3603196	0.39	2 410-435(0.39) 1013-1040(0.25)
gnl UG Hs#S3219653	1.72	1 106-131(1.72)
gnl UG Hs#S1730422	2.15	1 194-219(2.15)
gnl UG Hs#S4283557	2.73	1 119-144(2.73)
gnl UG Hs#S1969083	1.19	1 2650-2675(1.19)
gnl UG Hs#S2294325	1.18	1 367-392(1.18)
gnl UG Hs#S15632540	0.07	1 376-401(0.07)
gnl UG Hs#S1729546	1.79	1 1227-1254(1.79)
gnl UG Hs#S5978651	1.01	1 377-400(1.01)
gnl UG Hs#S2293488	0.46	1 484-509(0.46)
gnl UG Hs#S4823267	1.89	1 1666-1692(1.89)
gnl UG Hs#S15636177	2.07	5 53-78(0.56) 1144-1169(0.17) 1385-1410(1.53) 2250-2275(1.13) 2383-2408(2.07)
gnl UG Hs#S1729378	2.87	5 37-62(2.87) 238-263(0.46) 312-337(2.79) 742-770(0.61) 836-862(0.23)
gnl UG Hs#S4617115	2.1	1 959-988(2.10)
gnl UG Hs#S3619397	2.47	1 48-73(2.47)
gnl UG Hs#S4554571	0.13	1 186-214(0.13)
gnl UG Hs#S4631028	1.91	5 997-1023(1.91) 1091-1117(0.01) 2010-2038(0.56) 2570-2595(1.04) 2611-2639(1.62)
gnl UG Hs#S4807839	3.55	5 365-390(0.14) 775-800(3.55) 1367-1392(2.26) 1407-1433(2.50) 1563-1589(0.08)
gnl UG Hs#S1731753	2.78	1 71-99(2.78)
gnl UG Hs#S15644243	1.13	1 1077-1102(1.13)
gnl UG Hs#S3355462	2.57	5 207-233(0.05) 447-472(0.76) 849-874(0.57) 1068-1093(2.57) 1230-1255(1.85)
gnl UG Hs#S2139069	0.77	3 1772-1797(0.77) 2350-2378(0.18) 3325-3350(0.36)
gnl UG Hs#S6159076	3.26	5 252-278(2.30) 518-542(3.26) 769-797(1.21) 897-922(0.08) 1015-1038(0.53)
gnl UG Hs#S4631018	2.4	4 706-732(0.88) 841-866(1.23) 1067-1095(0.17) 1459-1485(2.40)
gnl UG Hs#S2293639	2.79	3 16-41(2.79) 60-85(1.20) 890-914(2.00)
gnl UG Hs#S1971592	2.62	8 40-66(0.24) 211-238(0.44) 930-956(2.62) 2112-2137(0.04) 2489-2517(2.59) 2911-2936(2.10) 2940-2965(1.94) 3177-3203(0.01)
gnl UG Hs#S1728762	1.47	4 494-519(0.07) 1414-1441(1.47) 1869-1894(0.23) 3219-3247(0.34)
gnl UG Hs#S3619398	1.3	2 45-70(1.30) 167-190(0.04)
gnl UG Hs#S3619163	0.46	1 1984-2007(0.46)
gnl UG Hs#S1728976	2.75	16 330-355(0.79) 384-409(1.72) 475-503(2.08) 514-539(1.17) 1355-1380(1.13) 1516-1541(0.81) 2225-2251(1.10) 2313-2338(2.14) 2618-2643(0.40) 2793-2818(1.21) 2911-2940(0.07) 2970-2995(1.84) :
gnl UG Hs#S1728835	0.53	1 683-708(0.53)
gnl UG Hs#S4830563	2.56	2 1214-1239(2.56) 1240-1265(1.17)
gnl UG Hs#S2139432	2.84	5 1274-1299(0.47) 1421-1446(2.30) 1551-1574(2.84) 3594-3619(1.46) 3743-3768(0.59)

gnl UG Hs#S1726234	1.83	3	402-426(0.73) 647-673(1.65) 683-708(1.83)
gnl UG Hs#S1729006	4.4	1	188-213(4.40)
gnl UG Hs#S3940059	3.2	3	223-248(3.20) 804-829(0.08) 1162-1187(0.26)
gnl UG Hs#S1729862	0.03	1	600-628(0.03)
gnl UG Hs#S3219106	6.92	4	349-377(0.39) 453-481(1.30) 1290-1316(1.04) 1435-1460(6.92)
gnl UG Hs#S2140382	2.98	1	251-277(2.98)
gnl UG Hs#S4396106	2.15	1	256-282(2.15)
gnl UG Hs#S7110631	3.59	1	332-359(3.59)
gnl UG Hs#S3547099	1.36	3	966-991(0.04) 1460-1485(1.36) 1849-1874(0.94)
gnl UG Hs#S5978450	0.98	2	683-709(0.98) 1046-1072(0.23)
gnl UG Hs#S4545945	1.59	2	202-227(0.46) 690-716(1.59)
gnl UG Hs#S3619260	0.68	1	340-365(0.68)
gnl UG Hs#S3219981	0.9	6	1328-1354(0.11) 1600-1626(0.23) 1984-2009(0.90) 2750-2775(0.46) 3757-3782(0.08) 4616-4641(0.08)
gnl UG Hs#S1727181	1.39	2	476-503(1.39) 1490-1516(0.23)
gnl UG Hs#S4827415	5.85	2	437-462(5.85) 1337-1365(1.34)
gnl UG Hs#S6693352	0.98	1	1919-1944(0.98)
gnl UG Hs#S14814316	1.89	2	449-475(1.89) 1742-1768(0.11)
gnl UG Hs#S3438594	0.07	1	616-641(0.07)
gnl UG Hs#S1731487	2.5	1	213-240(2.50)
gnl UG Hs#S4001854	3.3	2	789-815(0.34) 1185-1210(3.30)
gnl UG Hs#S3619471	0.7	1	542-565(0.70)
gnl UG Hs#S2138700	1.21	1	160-184(1.21)
gnl UG Hs#S5931471	2.42	2	68-93(1.17) 267-293(2.42)
gnl UG Hs#S1731735	1.97	1	303-328(1.97)
gnl UG Hs#S3438610	1.46	2	304-332(0.23) 926-951(1.46)
gnl UG Hs#S4814981	5.7	2	468-496(0.90) 589-614(5.70)
gnl UG Hs#S2293571	3.3	2	17-41(3.30) 141-170(1.43)
gnl UG Hs#S4811875	1.58	3	635-660(1.04) 1056-1081(1.58) 1579-1604(1.52)
gnl UG Hs#S4554018	1.67	3	165-191(1.67) 212-235(0.89) 801-826(1.65)
gnl UG Hs#S1727321	1.55	1	760-785(1.55)
gnl UG Hs#S3219081	4.14	3	574-602(1.98) 605-633(4.14) 672-697(0.26)
gnl UG Hs#S4620661	0.3	1	619-644(0.30)
gnl UG Hs#S7111023	3.99	1	322-348(3.99)
gnl UG Hs#S1731198	2.08	9	67-92(0.62) 242-268(0.52) 800-825(1.17) 923-946(0.17) 1386-1413(0.01) 1754-1780(2.08) 2228-2253(1.40) 2881-2907(0.18) 3317-3342(0.81)
gnl UG Hs#S2139379	2.33	3	119-144(2.01) 360-387(0.16) 1474-1498(2.33)
gnl UG Hs#S10832355	2.5	2	895-920(2.50) 1056-1083(0.29)
gnl UG Hs#S2293433	1.47	2	1483-1509(0.69) 1533-1556(1.47)
gnl UG Hs#S1824384	2.07	4	78-103(2.07) 162-187(1.26) 1327-1353(0.39) 1497-1522(0.46)
gnl UG Hs#S4810651	2.33	1	94-119(2.33)
gnl UG Hs#S3987206	1.65	4	88-113(1.03) 134-160(0.98) 353-378(0.79) 429-456(1.65)
gnl UG Hs#S3219925	2.04	1	1246-1272(2.04)
gnl UG Hs#S1729248	0.93	1	12-38(0.93)
gnl UG Hs#S4813865	3.47	5	1815-1840(3.47) 2557-2582(0.82) 2651-2679(0.07) 3832-3856(0.34) 3879-3904(1.41)
gnl UG Hs#S4828089	0.71	1	268-296(0.71)
gnl UG Hs#S4822652	5.59	3	894-922(0.49) 1269-1294(1.17) 1491-1519(5.59)
gnl UG Hs#S3219327	0.2	1	670-695(0.20)
gnl UG Hs#S11062823	4.17	6	542-567(4.17) 888-913(1.33) 1547-1572(2.11) 1591-1616(2.48) 2190-2215(0.26) 2354-2382(1.25)
gnl UG Hs#S4828142	0.08	1	444-472(0.08)
gnl UG Hs#S1726938	1.89	3	1861-1886(1.89) 1920-1944(0.13) 2912-2937(1.11)
gnl UG Hs#S1729632	5.36	1	482-507(5.36)
gnl UG Hs#S15632495	2.89	5	1033-1058(0.84) 1264-1289(0.79) 2089-2117(1.62) 2131-2157(2.89) 2352-2377(0.76)
gnl UG Hs#S4820766	5.72	2	393-421(5.72) 638-663(3.26)
gnl UG Hs#S2139046	1.98	1	697-722(1.98)
gnl UG Hs#S3438959	2.3	1	272-299(2.30)

gnl UG Hs#S1732232	2.36	5	470-495(0.13)	1022-1046(0.43)	1092-1120(0.52)	1221-1246(1.82)	1304-1332(2.36)
gnl UG Hs#S2294279	1.75	4	151-177(1.75)	710-735(0.94)	777-802(0.23)	857-880(1.44)	
gnl UG Hs#S3438340	1.08	2	253-281(0.88)	375-400(1.08)			
gnl UG Hs#S1729947	1.65	3	722-747(1.65)	941-967(0.57)	1581-1606(1.63)		
gnl UG Hs#S3439060	0.86	1	830-856(0.86)				
gnl UG Hs#S4811971	3.52	1	3672-3697(3.52)				
gnl UG Hs#S4816081	3.79	2	410-435(0.46)	436-462(3.79)			
gnl UG Hs#S1726274	0.11	1	185-211(0.11)				
gnl UG Hs#S1729826	0.17	1	133-158(0.17)				
gnl UG Hs#S1971543	2.2	2	59-83(0.55)	295-320(2.20)			
gnl UG Hs#S4824154	1.94	4	2650-2675(0.89)	2916-2941(0.65)	4214-4242(1.94)	4251-4276(0.17)	
gnl UG Hs#S4283442	3.04	4	90-116(0.56)	368-395(3.04)	1393-1416(2.12)	1457-1482(1.08)	
gnl UG Hs#S4825904	0.59	3	306-329(0.59)	584-609(0.24)	863-889(0.53)		
gnl UG Hs#S10831572	1.24	2	488-513(1.24)	514-539(1.17)			
gnl UG Hs#S1732362	3.56	7	76-101(0.08)	174-199(0.58)	642-665(3.56)	784-810(0.50)	878-901(0.08)
gnl UG Hs#S1730956	0.4	1	811-837(0.40)				
gnl UG Hs#S3814674	0.13	1	107-136(0.13)				
gnl UG Hs#S3603822	0.43	1	397-423(0.43)				
gnl UG Hs#S15631453	0.94	1	25-53(0.94)				
gnl UG Hs#S4554291	0.09	1	338-364(0.09)				
gnl UG Hs#S1729571	3	1	419-444(3.00)				
gnl UG Hs#S3219809	0.8	2	79-104(0.69)	569-592(0.80)			
gnl UG Hs#S2294563	2.13	1	343-369(2.13)				
gnl UG Hs#S1728699	0.65	1	548-573(0.65)				
gnl UG Hs#S1731454	0.91	1	520-545(0.91)				
gnl UG Hs#S4045914	0.69	5	185-210(0.48)	292-317(0.21)	349-375(0.69)	566-591(0.23)	672-700(0.40)
gnl UG Hs#S2140136	0.97	4	350-375(0.45)	574-599(0.04)	1165-1190(0.97)	1437-1462(0.14)	
gnl UG Hs#S1732358	2.07	2	586-612(1.01)	830-855(2.07)			
gnl UG Hs#S4621423	1.4	2	2150-2175(1.40)	2787-2813(0.07)			
gnl UG Hs#S1726909	0.5	1	260-286(0.50)				
gnl UG Hs#S2651833	3.74	5	97-123(0.75)	1177-1202(2.72)	1891-1916(3.74)	2354-2380(0.01)	3151-3178(0.91)
gnl UG Hs#S2294619	3.15	4	757-782(3.15)	1328-1353(1.66)	1390-1415(2.45)	1509-1536(1.20)	
gnl UG Hs#S3438855	0.04	1	834-859(0.04)				
gnl UG Hs#S2140453	1.85	2	735-760(0.26)	920-946(1.85)			
gnl UG Hs#S1730734	0.81	1	850-879(0.81)				
gnl UG Hs#S1728399	3.57	3	56-84(0.55)	343-368(1.75)	503-528(3.57)		
gnl UG Hs#S5978607	0.98	1	182-207(0.98)				
gnl UG Hs#S15634791	0.11	1	152-177(0.11)				
gnl UG Hs#S14802437	2.3	2	120-146(2.30)	192-217(1.72)			
gnl UG Hs#S4619717	3.55	2	182-205(0.26)	974-1000(3.55)			
gnl UG Hs#S2140242	1.58	1	274-299(1.58)				
gnl UG Hs#S3219963	8.05	4	635-660(1.98)	932-957(1.52)	1086-1112(8.05)	1440-1465(2.05)	
gnl UG Hs#S2329530	0.79	1	929-954(0.79)				
gnl UG Hs#S4815751	1.92	5	8-36(0.90)	333-360(0.98)	1801-1826(1.70)	2631-2656(0.72)	2795-2822(1.92)
gnl UG Hs#S4825415	1.52	2	768-793(0.79)	798-825(1.52)			
gnl UG Hs#S4612633	3.72	9	327-350(1.72)	380-406(0.27)	786-811(0.72)	825-851(2.01)	951-978(2.01)
gnl UG Hs#S1729453	4.16	3	151-179(0.35)	361-386(1.05)	635-660(4.16)		
gnl UG Hs#S1726319	2.76	1	1881-1907(2.76)				
gnl UG Hs#S1731870	0.91	2	72-98(0.32)	120-145(0.91)			
gnl UG Hs#S4631290	1.97	1	308-334(1.97)				
gnl UG Hs#S1729191	1.17	3	1289-1314(0.39)	1327-1355(1.08)	1421-1446(1.17)		
gnl UG Hs#S1729763	3.2	1	108-135(3.20)				
gnl UG Hs#S1263784	2.97	3	141-166(1.46)	373-396(2.97)	1059-1085(0.34)		
gnl UG Hs#S15642708	1.94	3	569-595(0.08)	654-679(1.94)	1319-1344(1.72)		

gnl UG Hs#S3219284	2.75	1 115-140(2.75)
gnl UG Hs#S1729230	0.4	1 724-749(0.40)
gnl UG Hs#S14273451	2.61	1 314-338(2.61)
gnl UG Hs#S1727052	0.14	2 1052-1077(0.14) 1160-1185(0.08)
gnl UG Hs#S3993472	1.98	1 708-733(1.98)
gnl UG Hs#S7111019	2.37	5 499-527(0.56) 803-828(1.34) 1143-1168(2.37) 1203-1228(0.14) 1229-1254(0.46)
gnl UG Hs#S2139599	0.07	1 965-992(0.07)
gnl UG Hs#S1730929	2.09	3 219-243(0.66) 549-574(0.43) 699-726(2.09)
gnl UG Hs#S1731417	3.34	1 186-212(3.34)
gnl UG Hs#S4631502	1.3	1 5-30(1.30)
gnl UG Hs#S1730806	3.2	6 214-239(0.65) 784-808(0.46) 846-874(3.20) 1265-1291(0.40) 1606-1632(1.17) 1823-1848(1.50)
gnl UG Hs#S2293843	0.48	1 260-285(0.48)
gnl UG Hs#S1727828	0.13	1 574-599(0.13)
gnl UG Hs#S2138840	1.34	2 359-383(1.19) 408-436(1.34)
gnl UG Hs#S1727815	0.74	2 184-210(0.07) 397-422(0.74)
gnl UG Hs#S1727225	0.84	1 545-570(0.84)
gnl UG Hs#S4283940	0.98	1 90-115(0.98)
gnl UG Hs#S1729362	0.3	1 551-579(0.30)
gnl UG Hs#S3355561	1.08	1 179-205(1.08)
gnl UG Hs#S4813370	1.27	1 395-423(1.27)
gnl UG Hs#S2140221	0.53	1 512-537(0.53)
gnl UG Hs#S5978420	1.3	3 180-205(1.30) 1129-1154(0.08) 1315-1340(0.50)
gnl UG Hs#S1729137	0.91	1 1019-1044(0.91)
gnl UG Hs#S5978661	1.4	3 377-402(0.58) 408-436(1.40) 553-583(1.40)
gnl UG Hs#S5930954	2.14	2 1084-1109(1.46) 2315-2341(2.14)
gnl UG Hs#S2294463	0.01	1 406-432(0.01)
gnl UG Hs#S4285132	0.82	1 162-187(0.82)
gnl UG Hs#S1730679	0.58	1 770-796(0.58)
gnl UG Hs#S4546300	2.58	1 1352-1378(2.58)
gnl UG Hs#S998698	0.36	1 2350-2374(0.36)
gnl UG Hs#S3803386	0.26	1 519-544(0.26)
gnl UG Hs#S1728923	2.46	1 1174-1199(2.46)
gnl UG Hs#S4283853	3.04	9 819-843(0.61) 891-916(2.14) 1027-1052(1.97) 1422-1447(1.04) 1565-1588(0.45) 1666-1691(0.59) 2563-2589(0.33) 2607-2632(1.23) 2800-2825(3.04)
gnl UG Hs#S2333013	1.72	2 725-750(1.72) 759-787(1.47)
gnl UG Hs#S11046648	4.52	9 252-277(3.16) 666-694(1.17) 969-994(4.52) 1134-1159(0.98) 1190-1215(2.11) 1248-1273(0.08) 1810-1835(0.26) 2004-2030(0.03) 2117-2141(1.19)
gnl UG Hs#S4807694	1.98	3 153-181(1.98) 296-325(0.20) 428-453(0.08)
gnl UG Hs#S7111100	0.37	1 1055-1081(0.37)
gnl UG Hs#S1726512	1.23	4 142-168(0.88) 187-212(1.23) 250-276(0.95) 552-580(0.77)
gnl UG Hs#S2139553	1.78	3 655-680(1.46) 1373-1396(1.78) 1790-1815(0.30)
gnl UG Hs#S4553485	3.59	6 387-412(0.79) 834-859(3.59) 1683-1708(1.26) 2258-2283(1.63) 2500-2528(0.59) 2728-2756(3.03)
gnl UG Hs#S1729089	3.69	4 115-143(1.04) 213-238(3.69) 582-608(1.13) 632-657(0.23)
gnl UG Hs#S1729217	3.57	3 530-555(1.19) 1012-1037(1.46) 1402-1427(3.57)
gnl UG Hs#S2294387	5.21	3 350-375(5.21) 987-1012(0.21) 1025-1052(0.07)
gnl UG Hs#S1727649	3.35	1 636-660(3.35)
gnl UG Hs#S2293971	0.33	2 1073-1098(0.08) 1211-1242(0.33)
gnl UG Hs#S1727080	0.4	1 192-218(0.40)
gnl UG Hs#S4807193	0.49	1 287-313(0.49)
gnl UG Hs#S4825285	1.74	2 1031-1056(1.74) 1093-1119(0.50)
gnl UG Hs#S2140321	5.04	4 329-352(2.57) 812-839(1.49) 1544-1570(0.26) 1777-1803(5.04)
gnl UG Hs#S4615889	0.57	3 393-418(0.43) 940-968(0.16) 1362-1387(0.57)
gnl UG Hs#S1732209	1.28	1 246-271(1.28)
gnl UG Hs#S4822071	2.25	1 672-695(2.25)
gnl UG Hs#S2294391	2.08	1 234-260(2.08)
gnl UG Hs#S1726397	1.91	1 246-271(1.91)

gnl UG Hs#S3973067	8.43	2 82-110(2.21) 264-289(8.43)
gnl UG Hs#S3218922	0.92	1 158-183(0.92)
gnl UG Hs#S1727055	0.55	1 1486-1513(0.55)
gnl UG Hs#S2293244	1.67	3 69-94(1.67) 1000-1025(0.14) 1049-1074(1.54)
gnl UG Hs#S1732384	3.07	1 147-175(3.07)
gnl UG Hs#S3619211	1.5	2 49-75(1.50) 1268-1294(0.30)
gnl UG Hs#S3438641	0.36	2 61-86(0.36) 705-729(0.32)
gnl UG Hs#S2138976	4.11	1 114-139(4.11)
gnl UG Hs#S5516656	0.92	1 2086-2111(0.92)
gnl UG Hs#S5978623	1.82	1 489-512(1.82)
gnl UG Hs#S6693336	0.76	1 683-709(0.76)
gnl UG Hs#S1728858	1.23	2 10-36(1.04) 337-364(1.23)
gnl UG Hs#S2294199	6.18	1 1899-1925(6.18)
gnl UG Hs#S1726324	1.98	1 701-729(1.98)
gnl UG Hs#S1727883	4.04	1 162-187(4.04)
gnl UG Hs#S1727206	0.52	1 576-602(0.52)
gnl UG Hs#S2139024	0.94	1 217-242(0.94)
gnl UG Hs#S15644167	1.5	2 252-277(0.36) 558-584(1.50)
gnl UG Hs#S2139840	1.62	7 100-123(0.28) 155-179(0.61) 582-608(0.06) 1223-1248(1.04) 1310-1335(1.53) 1394-1419(0.04) 1510-1533(1.62)
gnl UG Hs#S5978543	0.59	1 565-591(0.59)
gnl UG Hs#S1726334	1.04	1 144-169(1.04)
gnl UG Hs#S2140581	0.79	1 1044-1069(0.79)
gnl UG Hs#S998729	2.48	3 80-105(0.98) 1086-1111(2.48) 1619-1649(0.43)
gnl UG Hs#S1726747	3.39	4 273-298(3.39) 501-526(3.04) 929-957(1.40) 2299-2324(1.17)
gnl UG Hs#S5931225	2.72	3 575-600(2.72) 832-858(0.02) 929-953(0.85)
gnl UG Hs#S1730019	3.11	3 363-390(0.62) 451-476(3.11) 972-997(0.04)
gnl UG Hs#S3219389	0.08	1 140-165(0.08)
gnl UG Hs#S1727302	0.84	2 260-285(0.84) 343-369(0.66)
gnl UG Hs#S3220076	3.55	1 1740-1768(3.55)
gnl UG Hs#S3618693	3.43	2 1370-1395(3.43) 1887-1917(0.62)
gnl UG Hs#S4825428	0.81	2 1024-1049(0.81) 1328-1354(0.17)
gnl UG Hs#S1731147	0.46	1 163-188(0.46)
gnl UG Hs#S1727464	3.41	7 461-487(1.40) 1270-1296(3.41) 1356-1381(0.65) 1396-1424(1.07) 1550-1575(0.03) 1615-1641(1.50) 1760-1788(2.97)
gnl UG Hs#S15639934	1.71	2 191-216(0.07) 2564-2592(1.71)
gnl UG Hs#S3993264	0.98	2 12-37(0.39) 358-383(0.98)
gnl UG Hs#S10832743	3.57	3 1003-1029(3.57) 1512-1536(2.21) 1840-1866(0.53)
gnl UG Hs#S2138915	6.82	3 187-213(3.08) 285-311(6.82) 377-401(2.07)
gnl UG Hs#S2140021	3.11	4 358-383(3.11) 421-450(0.30) 760-787(0.58) 942-968(0.76)
gnl UG Hs#S1727833	2.81	7 88-114(0.98) 221-246(0.07) 321-346(0.72) 367-392(2.81) 954-981(0.88) 1355-1381(1.50) 1422-1447(0.97)
gnl UG Hs#S3880590	0.98	1 381-406(0.98)
gnl UG Hs#S2139359	3.47	1 298-326(3.47)
gnl UG Hs#S4807759	0.98	1 1136-1161(0.98)
gnl UG Hs#S10832569	1.4	2 85-110(0.57) 738-761(1.40)
gnl UG Hs#S14802299	1.79	7 177-202(0.97) 291-316(1.79) 468-496(0.17) 505-530(1.21) 636-663(0.54) 842-868(1.30) 911-936(0.23)
gnl UG Hs#S7112092	0.2	1 1461-1486(0.20)
gnl UG Hs#S2140611	1.98	3 1174-1199(1.33) 1233-1261(1.49) 1263-1289(1.98)
gnl UG Hs#S1731713	2.57	4 631-656(0.26) 871-894(1.99) 916-941(2.57) 2335-2360(0.30)
gnl UG Hs#S4807923	4.45	1 1139-1164(4.45)
gnl UG Hs#S3219897	1.89	2 47-76(0.84) 637-663(1.89)
gnl UG Hs#S2294437	1.3	1 571-599(1.30)
gnl UG Hs#S4618785	0.4	1 824-849(0.40)
gnl UG Hs#S1727563	3.3	1 563-589(3.30)
gnl UG Hs#S1727218	1.76	2 222-247(1.76) 365-390(0.98)
gnl UG Hs#S3905473	1.68	1 166-190(1.68)

gnl UG Hs#S15634005	2.98	8 115-140(1.40) 145-170(2.40) 175-200(1.40) 205-230(2.98) 990-1016(0.08) 1243-1268(1.16) 1576-1601(0.47) 1727-1752(1.63)
gnl UG Hs#S2139560	1.72	2 191-217(1.72) 226-254(0.81)
gnl UG Hs#S2140452	2.76	1 196-223(2.76)
gnl UG Hs#S1729829	2.24	1 49-75(2.24)
gnl UG Hs#S1732099	1.95	1 1002-1026(1.95)
gnl UG Hs#S3438595	0.56	1 164-189(0.56)
gnl UG Hs#S4546061	0.17	1 517-543(0.17)
gnl UG Hs#S15730312	1.16	2 215-241(0.76) 1221-1246(1.16)
gnl UG Hs#S1727162	1.43	1 1046-1072(1.43)
gnl UG Hs#S1824455	2.1	1 54-80(2.10)
gnl UG Hs#S4812062	2.5	1 641-669(2.50)
gnl UG Hs#S3542701	2.94	1 209-234(2.94)
gnl UG Hs#S15637839	0.59	1 625-651(0.59)
gnl UG Hs#S1824564	1.05	1 96-121(1.05)
gnl UG Hs#S1730279	0.72	3 56-81(0.26) 405-430(0.26) 574-600(0.72)
gnl UG Hs#S2293533	2.51	5 1033-1058(2.26) 1278-1305(0.08) 1656-1681(0.17) 1819-1845(2.51) 1874-1899(0.91)
gnl UG Hs#S3602296	1.11	5 1074-1099(1.11) 1292-1317(0.89) 1411-1436(0.14) 1531-1557(0.76) 1842-1867(0.04)
gnl UG Hs#S1731917	1.65	3 73-96(0.67) 287-315(0.59) 447-472(1.65)
gnl UG Hs#S1728408	2.75	1 248-273(2.75)
gnl UG Hs#S2140577	3.8	1 188-211(3.80)
gnl UG Hs#S2139358	0.11	1 62-85(0.11)
gnl UG Hs#S4553513	5.43	5 61-89(2.47) 120-145(0.14) 277-302(2.97) 760-785(1.26) 934-959(5.43)
gnl UG Hs#S1727885	2.75	3 422-450(2.75) 988-1014(0.43) 961-986(0.30)
gnl UG Hs#S2294538	0.51	2 1222-1248(0.01) 1846-1874(0.51)
gnl UG Hs#S1729915	2.04	1 214-240(2.04)
gnl UG Hs#S1824316	3.11	3 11-36(1.11) 916-942(0.01) 1126-1151(3.11)
gnl UG Hs#S2139926	1	1 12-38(1.00)
gnl UG Hs#S14272931	2.3	1 65-90(2.30)
gnl UG Hs#S4615763	0.48	1 688-713(0.48)
gnl UG Hs#S2138748	0.66	1 966-992(0.66)
gnl UG Hs#S4810170	2.17	2 71-97(0.01) 111-136(2.17)
gnl UG Hs#S4396072	1.57	2 194-220(1.07) 294-320(1.57)
gnl UG Hs#S7111211	1.3	1 230-258(1.30)
gnl UG Hs#S1730334	1.17	1 639-664(1.17)
gnl UG Hs#S3322283	0.76	1 607-632(0.76)
gnl UG Hs#S1824265	0.76	1 371-396(0.76)
gnl UG Hs#S3438627	1.87	3 218-243(0.58) 381-406(0.72) 1419-1443(1.87)
gnl UG Hs#S1730917	1.01	2 513-538(0.20) 618-644(1.01)
gnl UG Hs#S4807547	2.33	2 407-435(2.33) 818-843(2.04)
gnl UG Hs#S11046582	0.31	1 571-596(0.31)
gnl UG Hs#S14863765	4.98	7 382-406(1.62) 409-434(3.89) 534-560(0.12) 592-620(4.98) 1142-1169(0.65) 1235-1260(1.06) 1625-1653(0.23)
gnl UG Hs#S3438793	1.3	3 251-276(1.30) 369-395(0.08) 924-949(0.81)
gnl UG Hs#S3619176	1.4	2 120-143(1.29) 252-280(1.40)
gnl UG Hs#S3619105	4.14	2 291-317(0.08) 1578-1605(4.14)
gnl UG Hs#S11046694	2.62	1 1872-1900(2.62)
gnl UG Hs#S1731899	1.63	1 798-823(1.63)
gnl UG Hs#S1731194	1.49	1 453-481(1.49)
gnl UG Hs#S14802453	2.3	7 209-234(2.30) 302-328(0.01) 559-584(0.13) 1694-1719(2.13) 1904-1929(2.13) 1947-1975(1.16) 2280-2308(0.68)
gnl UG Hs#S11154012	1.87	4 191-216(0.58) 246-271(1.84) 727-752(1.87) 1174-1201(1.33)
gnl UG Hs#S1732178	1.24	1 2544-2569(1.24)
gnl UG Hs#S4807828	1.08	1 1015-1041(1.08)
gnl UG Hs#S1726316	1.49	1 165-193(1.49)
gnl UG Hs#S3219138	4.47	6 363-388(4.47) 738-764(2.76) 1295-1323(1.24) 2329-2354(2.23) 3333-3358(2.04) 3388-3413(0.14)
gnl UG Hs#S3601760	0.78	2 849-876(0.78) 1280-1305(0.36)

gnl UG Hs#S3219470	0.34	1 237-263(0.34)
gnl UG Hs#S4825822	1.21	1 1395-1420(1.21)
gnl UG Hs#S5517591	2.9	2 290-318(2.90) 1332-1357(1.87)
gnl UG Hs#S6163433	2.69	4 172-197(0.08) 895-920(2.23) 980-1005(2.69) 1150-1176(1.08)
gnl UG Hs#S2294332	0.01	1 329-354(0.01)
gnl UG Hs#S1728713	2.63	2 825-850(2.63) 918-943(2.33)
gnl UG Hs#S1824386	1.72	3 21-46(1.13) 223-249(1.50) 1125-1148(1.72)
gnl UG Hs#S4620923	0.91	1 1002-1028(0.91)
gnl UG Hs#S15636411	0.32	1 597-622(0.32)
gnl UG Hs#S1732198	1.57	1 227-252(1.57)
gnl UG Hs#S1728576	1.36	2 422-448(0.50) 772-799(1.36)
gnl UG Hs#S1727234	1.26	3 1371-1396(0.87) 1408-1434(0.62) 1527-1551(1.26)
gnl UG Hs#S2139661	2.15	2 688-713(1.43) 2736-2761(2.15)
gnl UG Hs#S4631269	0.01	1 588-614(0.01)
gnl UG Hs#S11046563	1.72	3 123-148(1.39) 811-836(1.72) 992-1017(0.88)
gnl UG Hs#S1729056	0.43	1 1327-1350(0.43)
gnl UG Hs#S2140262	2.13	2 79-104(2.13) 541-565(0.41)
gnl UG Hs#S4821537	2.82	3 185-213(1.55) 287-312(2.82) 352-380(1.73)
gnl UG Hs#S1971575	2.94	5 485-510(1.30) 1086-1114(2.94) 1413-1441(2.75) 2004-2029(0.14) 2636-2661(2.11)
gnl UG Hs#S15630436	3.46	1 124-149(3.46)
gnl UG Hs#S2140347	3.55	2 151-176(0.67) 736-764(3.55)
gnl UG Hs#S1730973	1.72	4 273-298(1.72) 323-353(0.66) 592-617(0.72) 1923-1948(0.78)
gnl UG Hs#S1726408	1.79	2 155-184(0.90) 311-337(1.79)
gnl UG Hs#S1730076	2.19	3 123-148(2.19) 1048-1073(0.90) 1111-1136(0.30)
gnl UG Hs#S3437929	1.2	1 312-337(1.20)
gnl UG Hs#S4813525	1.48	1 1476-1501(1.48)
gnl UG Hs#S2139458	3.55	3 15-41(0.17) 204-233(1.09) 701-727(3.55)
gnl UG Hs#S2139380	1.5	4 7-32(1.50) 38-63(0.48) 133-158(0.14) 178-203(0.23)
gnl UG Hs#S2139030	0.04	1 231-256(0.04)
gnl UG Hs#S3219868	1.09	4 127-153(1.09) 484-509(0.72) 894-919(0.46) 1034-1059(0.04)
gnl UG Hs#S3601740	1.63	1 3599-3623(1.63)
gnl UG Hs#S3438950	1.85	1 148-172(1.85)
gnl UG Hs#S2140554	0.65	1 169-195(0.65)
gnl UG Hs#S11590930	8.37	1 244-269(8.37)
gnl UG Hs#S1728778	0.89	2 37-64(0.40) 78-103(0.89)
gnl UG Hs#S1727391	1.98	2 1493-1522(0.06) 1603-1631(1.98)
gnl UG Hs#S10832310	0.5	3 562-587(0.13) 1132-1158(0.50) 1242-1272(0.46)
gnl UG Hs#S10831934	0.34	1 1333-1359(0.34)
gnl UG Hs#S15633910	7.26	6 833-858(7.26) 1086-1112(1.17) 1269-1295(0.04) 1309-1335(0.50) 1807-1830(1.15) 1941-1966(0.89)
gnl UG Hs#S4815008	5.44	6 442-468(5.44) 984-1009(0.94) 1480-1506(0.43) 1802-1828(0.91) 1946-1972(0.82) 2169-2195(0.30)
gnl UG Hs#S4392147	1.41	4 232-257(1.41) 607-632(1.04) 641-667(0.30) 966-991(0.58)
gnl UG Hs#S2294202	6.18	1 1899-1925(6.18)
gnl UG Hs#S6163282	0.16	1 454-479(0.16)
gnl UG Hs#S4044961	4.13	3 208-233(1.37) 356-381(4.13) 619-645(1.98)
gnl UG Hs#S1731789	0.67	2 468-494(0.67) 921-949(0.16)
gnl UG Hs#S1731679	1.11	2 119-144(1.11) 1020-1046(0.14)
gnl UG Hs#S3218972	1.99	2 731-754(1.99) 2031-2054(0.62)
gnl UG Hs#S3438702	1.98	1 1806-1834(1.98)
gnl UG Hs#S2293605	2.01	1 560-584(2.01)
gnl UG Hs#S3219265	1.04	1 517-543(1.04)
gnl UG Hs#S4553186	0.94	2 695-721(0.94) 946-974(0.71)
gnl UG Hs#S1728814	1.08	4 390-415(1.01) 1611-1638(0.07) 1751-1776(1.08) 1992-2020(0.55)
gnl UG Hs#S1971488	3.98	12 66-93(1.37) 444-469(1.33) 535-560(0.63) 1014-1038(0.13) 1145-1172(0.45) 1449-1477(1.44) 1965-1991(3.98) 2133-2161(0.30) 2438-2463(1.23) 2832-2860(2.20) 3318-3343(0.23) 3536-3561(0.91)
gnl UG Hs#S3438551	1.04	1 541-566(1.04)

gnl UG Hs#S10831734	2.2	2	671-696(0.20)	1088-1113(2.20)								
gnl UG Hs#S4553505	2.58	10	461-486(0.76)	497-525(0.59)	1179-1206(1.07)	1508-1536(0.04)	2274-2299(1.17)	2548-2573(0.91)	3338-3366(1.30)	3865-3890(0.43)	4755-4781(2.58)	4889-4914(0.40)
gnl UG Hs#S3547212	1.95	4	319-346(0.75)	737-762(1.95)	1366-1391(0.40)	1447-1475(0.05)						
gnl UG Hs#S1824415	0.29	1	1354-1378(0.29)									
gnl UG Hs#S1729952	1.33	3	286-311(0.87)	357-382(0.91)	504-529(1.33)							
gnl UG Hs#S2140079	1.24	1	463-488(1.24)									
gnl UG Hs#S2140236	2.72	2	989-1015(0.82)	1265-1290(2.72)								
gnl UG Hs#S3439110	0.25	1	644-670(0.25)									
gnl UG Hs#S7110562	3.89	1	794-819(3.89)									
gnl UG Hs#S3438990	2.57	1	188-213(2.57)									
gnl UG Hs#S4807934	1.49	1	1210-1238(1.49)									
gnl UG Hs#S1731226	1.3	3	338-364(0.21)	597-622(1.04)	1483-1511(1.30)							
gnl UG Hs#S2139552	0.72	3	964-989(0.72)	1254-1277(0.52)	1700-1726(0.49)							
gnl UG Hs#S14813067	1.94	2	1313-1341(1.27)	1748-1773(1.94)								
gnl UG Hs#S4044945	1.76	5	147-173(1.76)	325-350(0.72)	381-406(1.07)	482-509(0.34)	553-579(0.36)					
gnl UG Hs#S3603856	1.33	1	315-343(1.33)									
gnl UG Hs#S4285067	1.04	1	751-775(1.04)									
gnl UG Hs#S1728903	1.08	1	19-45(1.08)									
gnl UG Hs#S1726588	0.58	2	229-254(0.58)	392-417(0.04)								
gnl UG Hs#S1728188	1.94	2	161-187(0.91)	305-330(1.94)								
gnl UG Hs#S5979274	4.49	3	69-95(2.08)	790-818(4.49)	870-896(0.36)							
gnl UG Hs#S1732401	2.72	2	1056-1081(2.72)	2002-2028(0.65)								
gnl UG Hs#S4554567	2.62	2	571-599(2.62)	1036-1061(0.23)								
gnl UG Hs#S1728898	6.21	7	84-110(1.30)	251-280(3.25)	369-395(6.21)	1030-1056(0.30)	1627-1653(0.49)	1656-1684(1.81)	1805-1830(1.72)			
gnl UG Hs#S4631299	0.67	2	1885-1911(0.67)	2792-2816(0.22)								
gnl UG Hs#S1729107	4.86	5	3-29(1.55)	575-603(4.21)	624-649(1.04)	659-684(0.11)	885-911(4.86)					
gnl UG Hs#S1730252	4.3	2	125-151(4.30)	168-193(0.08)								
gnl UG Hs#S7110125	0.59	1	1437-1463(0.59)									
gnl UG Hs#S3220166	1.31	1	2430-2453(1.31)									
gnl UG Hs#S3542679	2.88	1	1137-1164(2.88)									
gnl UG Hs#S4808261	0.72	1	187-213(0.72)									
gnl UG Hs#S4392392	2.08	1	828-853(2.08)									
gnl UG Hs#S3619222	2.97	5	441-465(0.22)	749-774(2.97)	909-934(1.07)	1016-1042(1.69)	1145-1168(0.26)					
gnl UG Hs#S1729337	1.98	3	814-840(0.01)	1513-1538(1.98)	1836-1861(0.26)							
gnl UG Hs#S1729125	1.3	1	201-226(1.30)									
gnl UG Hs#S1731567	2.5	1	368-393(2.50)									
gnl UG Hs#S1727254	2.52	1	713-738(2.52)									
gnl UG Hs#S4810286	1.27	1	2625-2651(1.27)									
gnl UG Hs#S10832380	0.84	3	965-991(0.84)	1330-1353(0.41)	1582-1608(0.21)							
gnl UG Hs#S14863629	2.58	3	7-32(2.58)	1500-1526(1.98)	1540-1566(0.52)							
gnl UG Hs#S4810955	2.46	3	1526-1552(0.04)	3295-3320(1.72)	3544-3569(2.46)							
gnl UG Hs#S2139653	0.6	2	411-436(0.60)	1244-1269(0.17)								
gnl UG Hs#S3547079	0.55	1	83-108(0.55)									
gnl UG Hs#S2293914	0.72	1	100-125(0.72)									
gnl UG Hs#S15633917	0.82	1	117-142(0.82)									
gnl UG Hs#S6693105	0.76	1	2438-2463(0.76)									
gnl UG Hs#S2138987	3.82	4	141-167(0.84)	494-519(3.82)	1185-1210(0.24)	1551-1576(0.07)						
gnl UG Hs#S1729556	3.21	3	176-201(0.04)	279-304(3.21)	817-842(0.57)							
gnl UG Hs#S15633374	0.5	1	188-214(0.50)									
gnl UG Hs#S4553533	1.08	1	422-448(1.08)									
gnl UG Hs#S1730436	0.08	1	169-195(0.08)									
gnl UG Hs#S2138947	0.66	1	1469-1497(0.66)									
gnl UG Hs#S1727527	1.98	5	105-130(0.72)	1055-1080(0.94)	1221-1244(1.98)	1643-1668(1.30)	2026-2052(1.72)					
gnl UG Hs#S1824292	1.82	1	330-356(1.82)									

gnl UG Hs#S14802476	1.29	5	112-138(1.25) 209-234(0.72) 517-541(1.29) 641-666(0.50) 701-724(0.69)
gnl UG Hs#S1569546	1.3	2	572-596(1.30) 1072-1097(0.91)
gnl UG Hs#S1728116	0.46	1	173-199(0.46)
gnl UG Hs#S2139364	1.17	1	324-350(1.17)
gnl UG Hs#S15636192	2.91	3	26-51(0.20) 1416-1444(1.94) 2005-2033(2.91)
gnl UG Hs#S3219701	1	1	160-182(1.00)
gnl UG Hs#S3547095	0.72	4	632-657(0.21) 765-790(0.72) 1070-1097(0.24) 1155-1180(0.65)
gnl UG Hs#S5930838	1.3	3	2374-2400(0.50) 4548-4573(0.43) 6281-6309(1.30)
gnl UG Hs#S1726468	3.65	3	129-155(0.08) 168-193(3.65) 338-363(2.82)
gnl UG Hs#S7111053	0.72	1	728-754(0.72)
gnl UG Hs#S1729890	2.04	1	365-390(2.04)
gnl UG Hs#S1730274	5.39	2	124-149(5.39) 291-316(1.03)
gnl UG Hs#S4811031	1.49	2	371-400(1.49) 670-695(0.36)
gnl UG Hs#S4813479	1.53	1	125-150(1.53)
gnl UG Hs#S3817889	3.13	4	121-149(1.59) 162-187(3.13) 996-1022(2.60) 1561-1586(0.99)
gnl UG Hs#S2294364	3.46	2	314-339(3.46) 539-567(0.88)
gnl UG Hs#S1729902	1.21	2	12-37(0.91) 492-516(1.21)
gnl UG Hs#S3782085	2.3	1	428-456(2.30)
gnl UG Hs#S3219029	2.94	4	419-444(0.43) 721-749(0.14) 1148-1176(0.39) 1475-1500(2.94)
gnl UG Hs#S2293938	0.27	2	119-145(0.27) 165-189(0.04)
gnl UG Hs#S1732090	0.2	2	256-281(0.20) 516-544(0.18)
gnl UG Hs#S2138813	3.14	3	533-559(0.17) 956-981(1.21) 1345-1371(3.14)
gnl UG Hs#S1728157	1.18	1	1764-1792(1.18)
gnl UG Hs#S15641149	3.94	1	616-641(3.94)
gnl UG Hs#S14273254	3.17	11	163-188(1.98) 307-335(2.13) 555-580(0.72) 596-622(1.76) 953-978(0.18) 1031-1054(1.50) 1505-1530(3.17) 1545-1572(0.58) 1648-1673(0.13) 2163-2188(0.52) 2239-2265(0.95)
gnl UG Hs#S1729761	1.26	2	587-613(0.62) 1172-1199(1.26)
gnl UG Hs#S15631446	2.37	4	191-218(2.37) 973-998(0.88) 1111-1135(1.08) 2471-2496(0.89)
gnl UG Hs#S3601729	1.84	1	510-538(1.84)
gnl UG Hs#S3993746	1.46	2	172-198(0.84) 508-531(1.46)
gnl UG Hs#S3619577	1.63	1	554-579(1.63)
gnl UG Hs#S4619741	0.65	1	1248-1276(0.65)
gnl UG Hs#S3547104	2.71	1	1530-1555(2.71)
gnl UG Hs#S4614744	0.91	1	947-972(0.91)
gnl UG Hs#S1824500	4.34	5	512-538(0.01) 607-632(0.72) 734-760(0.50) 1272-1300(4.34) 1317-1342(0.13)
gnl UG Hs#S3619552	1.3	1	868-894(1.30)
gnl UG Hs#S3220027	1.3	1	164-192(1.30)
gnl UG Hs#S2138900	0.08	1	1212-1238(0.08)
gnl UG Hs#S1728552	0.23	1	195-220(0.23)
gnl UG Hs#S3219935	1.74	2	430-457(1.74) 1861-1888(0.37)
gnl UG Hs#S4810796	2.43	1	2255-2281(2.43)
gnl UG Hs#S14802335	0.08	1	512-538(0.08)
gnl UG Hs#S3322087	1.62	3	27-52(0.20) 177-202(1.62) 343-368(0.23)
gnl UG Hs#S3438857	0.81	2	1113-1138(0.36) 1411-1436(0.81)
gnl UG Hs#S4807606	2.82	2	1220-1246(2.82) 1945-1971(0.08)
gnl UG Hs#S2139738	2.72	1	371-396(2.72)
gnl UG Hs#S1824339	3.89	3	100-126(3.89) 449-473(1.23) 667-693(1.34)
gnl UG Hs#S3219256	5.53	1	157-182(5.53)
gnl UG Hs#S5978389	3.4	2	308-333(1.79) 704-729(3.40)
gnl UG Hs#S5517025	3.3	3	2788-2816(3.30) 2851-2876(1.33) 2946-2971(2.04)
gnl UG Hs#S1727190	3.82	4	1015-1041(3.82) 1525-1550(1.47) 1624-1651(0.43) 1670-1696(1.20)
gnl UG Hs#S4807676	0.23	1	47-75(0.23)
gnl UG Hs#S2294413	1.52	1	294-320(1.52)
gnl UG Hs#S3987116	2.2	2	145-173(2.20) 270-295(0.40)
gnl UG Hs#S4821132	1.27	1	323-349(1.27)

gnl UG Hs#S4044533	0.84	2	81-106(0.36) 129-157(0.84)
gnl UG Hs#S6686999	1.72	3	804-832(1.72) 1406-1431(0.76) 1904-1928(0.04)
gnl UG Hs#S6163072	3.39	3	157-182(0.91) 1300-1325(3.39) 1477-1502(0.63)
gnl UG Hs#S4818504	2.3	1	1296-1321(2.30)
gnl UG Hs#S2294018	2.04	1	991-1016(2.04)
gnl UG Hs#S11046627	3.56	2	733-761(3.56) 1059-1084(3.21)
gnl UG Hs#S2140207	2.2	1	322-347(2.20)
gnl UG Hs#S3990798	2.58	3	193-218(0.94) 409-438(1.14) 621-647(2.58)
gnl UG Hs#S3438781	2.24	1	142-169(2.24)
gnl UG Hs#S2293665	2.65	2	510-535(2.65) 1593-1619(0.17)
gnl UG Hs#S1732035	1.3	2	146-174(1.30) 604-630(0.17)
gnl UG Hs#S2139768	1.34	2	397-423(0.50) 950-975(1.34)
gnl UG Hs#S4820780	1.01	1	44-70(1.01)
gnl UG Hs#S10831780	1.72	2	676-702(0.69) 1416-1442(1.72)
gnl UG Hs#S11046641	0.62	2	854-879(0.23) 914-939(0.62)
gnl UG Hs#S5978442	2.56	3	463-492(2.56) 500-525(1.63) 566-591(1.38)
gnl UG Hs#S1727152	2.3	5	659-684(1.25) 758-786(0.55) 921-947(0.72) 1003-1028(2.30) 1880-1906(0.43)
gnl UG Hs#S3601534	1.85	1	220-245(1.85)
gnl UG Hs#S14902414	0.2	1	1968-1993(0.20)
gnl UG Hs#S3219968	1.3	2	1611-1636(1.11) 2158-2183(1.30)
gnl UG Hs#S11046689	1.2	2	1006-1034(1.20) 1119-1144(0.91)
gnl UG Hs#S15636653	1.17	3	7-34(0.16) 74-100(0.76) 322-348(1.17)
gnl UG Hs#S3619403	0.48	1	257-282(0.48)
gnl UG Hs#S1729661	3.97	3	411-436(3.97) 570-595(2.23) 757-782(1.04)
gnl UG Hs#S2294625	2.17	1	131-157(2.17)
gnl UG Hs#S13588632	1.85	2	1966-1994(1.85) 2011-2037(0.76)
gnl UG Hs#S3993848	0.62	1	49-74(0.62)
gnl UG Hs#S1727994	3.23	6	185-210(2.15) 466-491(2.20) 552-577(1.46) 643-668(0.89) 725-750(3.23) 990-1015(3.04)
gnl UG Hs#S3219657	0.1	1	1839-1865(0.10)
gnl UG Hs#S4631406	2.08	1	1447-1472(2.08)
gnl UG Hs#S2139144	3	1	159-183(3.00)
gnl UG Hs#S3219616	1.49	1	134-162(1.49)
gnl UG Hs#S2139912	1.94	1	131-156(1.94)
gnl UG Hs#S4820930	3.23	8	74-102(0.15) 413-438(0.13) 700-725(2.30) 940-966(1.76) 1259-1285(1.34) 1594-1621(0.45) 1714-1739(0.94) 2053-2081(3.23)
gnl UG Hs#S5978407	1.53	2	1478-1504(1.23) 1641-1666(1.53)
gnl UG Hs#S6664685	2.75	4	233-258(2.75) 1807-1832(0.72) 1837-1865(2.71) 1967-1991(1.28)
gnl UG Hs#S1731156	0.98	1	103-128(0.98)
gnl UG Hs#S7111304	0.62	1	605-630(0.62)
gnl UG Hs#S3988701	1.8	2	950-975(1.80) 1101-1126(1.56)
gnl UG Hs#S2293277	0.66	1	645-670(0.66)
gnl UG Hs#S2140074	8.69	3	250-275(2.72) 589-614(1.46) 835-860(8.69)
gnl UG Hs#S4826095	2.04	3	2087-2113(2.01) 2218-2246(0.16) 2894-2920(2.04)
gnl UG Hs#S15633128	2.47	1	366-392(2.47)
gnl UG Hs#S1824437	2.07	1	612-638(2.07)
gnl UG Hs#S4045148	1.04	7	128-154(0.28) 223-250(0.39) 311-338(0.14) 354-381(0.17) 1443-1468(0.47) 1625-1650(0.89) 1870-1896(1.04)
gnl UG Hs#S15639912	0.17	1	377-403(0.17)
gnl UG Hs#S2140039	2.85	3	212-237(2.26) 298-323(2.85) 361-387(0.72)
gnl UG Hs#S2293367	1.46	2	656-681(1.46) 882-907(0.40)
gnl UG Hs#S4840602	2.79	1	184-209(2.79)
gnl UG Hs#S1731559	4.49	3	377-402(4.49) 814-839(0.53) 1037-1062(1.72)
gnl UG Hs#S2140390	3.04	5	90-118(2.31) 189-214(0.29) 400-425(1.13) 680-705(3.04) 807-832(0.40)
gnl UG Hs#S1727979	0.13	2	664-690(0.13) 1148-1174(0.08)
gnl UG Hs#S4436076	5.13	6	972-997(5.13) 1092-1121(0.42) 1191-1216(0.98) 1225-1250(2.23) 1364-1388(3.29) 1854-1879(3.56)
gnl UG Hs#S14812321	2.26	4	843-868(2.26) 1201-1226(0.17) 1365-1390(0.04) 1754-1779(1.40)

gnl UG Hs#S4435211	3.01	3	534-559(3.01) 574-599(0.11) 2010-2036(0.98)
gnl UG Hs#S1730542	2.14	3	879-904(2.14) 1695-1721(0.97) 1844-1869(1.26)
gnl UG Hs#S2139838	2.75	6	639-664(0.30) 1010-1035(0.11) 2287-2313(0.08) 2658-2683(0.40) 2730-2755(0.84) 3888-3911(2.75)
gnl UG Hs#S3601491	1.62	1	36-61(1.62)
gnl UG Hs#S4553574	2.39	1	170-195(2.39)
gnl UG Hs#S1728385	1.76	1	255-280(1.76)
gnl UG Hs#S1730124	3.69	1	443-469(3.69)
gnl UG Hs#S2140314	2.53	3	344-371(0.52) 781-806(1.68) 817-842(2.53)
gnl UG Hs#S3220035	1.04	2	2290-2316(0.73) 3152-3177(1.04)
gnl UG Hs#S1728811	0.82	1	579-604(0.82)
gnl UG Hs#S3220109	0.72	2	1327-1356(0.15) 2097-2122(0.72)
gnl UG Hs#S552705	0.07	1	1492-1517(0.07)
gnl UG Hs#S4822044	1.63	1	819-844(1.63)
gnl UG Hs#S2294637	1.94	2	384-409(1.94) 757-781(0.41)
gnl UG Hs#S1569788	1.98	1	92-117(1.98)
gnl UG Hs#S1730737	1.2	4	39-63(1.01) 255-280(1.20) 293-317(0.94) 519-544(1.18)
gnl UG Hs#S2293877	0.08	1	126-154(0.08)
gnl UG Hs#S3438911	1.4	2	25-50(1.40) 52-77(0.19)
gnl UG Hs#S3619285	0.17	1	26-52(0.17)
gnl UG Hs#S4826031	5.36	4	357-382(0.30) 880-905(5.36) 1917-1942(2.82) 2840-2865(0.40)
gnl UG Hs#S2293832	2.07	1	48-73(2.07)
gnl UG Hs#S5860343	0.91	2	887-915(0.91) 2452-2477(0.72)
gnl UG Hs#S4046161	1.61	2	556-584(0.55) 1126-1151(1.61)
gnl UG Hs#S7111489	1.04	1	582-607(1.04)
gnl UG Hs#S3619132	0.65	1	152-177(0.65)
gnl UG Hs#S2293485	1.5	1	662-687(1.50)
gnl UG Hs#S1731336	2.07	3	195-223(2.07) 412-438(2.01) 711-734(0.08)
gnl UG Hs#S10831737	2.26	2	1145-1173(1.59) 1180-1205(2.26)
gnl UG Hs#S4822928	1.81	2	1238-1263(1.76) 3243-3269(1.81)
gnl UG Hs#S1732435	1.92	3	276-303(0.65) 1122-1147(1.32) 2523-2551(1.92)
gnl UG Hs#S5978473	1.05	1	473-499(1.05)
gnl UG Hs#S3219052	0.76	1	34-60(0.76)
gnl UG Hs#S4396089	0.07	1	65-91(0.07)
gnl UG Hs#S4814236	0.89	1	1526-1552(0.89)
gnl UG Hs#S4553473	0.4	1	280-305(0.40)
gnl UG Hs#S3826043	0.4	1	570-598(0.40)
gnl UG Hs#S1730238	0.04	1	182-207(0.04)
gnl UG Hs#S417730	3.4	2	171-199(3.40) 294-319(0.72)
gnl UG Hs#S2329654	0.2	1	887-913(0.20)
gnl UG Hs#S3603090	3.86	4	135-160(1.57) 423-451(0.44) 582-608(0.30) 766-792(3.86)
gnl UG Hs#S4546202	2.62	3	420-446(0.11) 1415-1443(0.49) 1528-1556(2.62)
gnl UG Hs#S3218886	1.16	1	141-168(1.16)
gnl UG Hs#S3542659	2.3	2	432-457(2.30) 859-886(0.44)
gnl UG Hs#S1726955	0.36	1	198-224(0.36)
gnl UG Hs#S2140047	1.84	2	36-66(0.62) 617-642(1.84)
gnl UG Hs#S1730870	0.5	1	708-733(0.50)
gnl UG Hs#S4811236	2.67	1	332-358(2.67)
gnl UG Hs#S5860314	3.04	3	734-760(0.01) 940-965(0.84) 978-1003(3.04)
gnl UG Hs#S3601501	0.3	1	11-39(0.30)
gnl UG Hs#S4631519	3.04	6	259-284(0.08) 491-517(0.04) 1005-1033(0.87) 1177-1203(1.72) 1511-1537(0.94) 2106-2131(3.04)
gnl UG Hs#S3547225	0.69	1	94-119(0.69)
gnl UG Hs#S3601566	2.2	1	1863-1889(2.20)
gnl UG Hs#S3603205	2.36	2	76-101(2.36) 184-210(1.86)
gnl UG Hs#S2138751	3.11	2	249-274(0.43) 1043-1068(3.11)

gnl UG Hs#S3619320	1.24	1 249-274(1.24)
gnl UG Hs#S15631739	4.72	4 1047-1073(1.73) 1188-1211(2.11) 1998-2023(4.72) 2069-2095(1.34)
gnl UG Hs#S1726416	2.56	1 1508-1533(2.56)
gnl UG Hs#S1729808	2.17	1 12-37(2.17)
gnl UG Hs#S7111580	1.13	1 21-46(1.13)
gnl UG Hs#S2138843	1.98	2 204-232(1.98) 503-528(0.98)
gnl UG Hs#S3619637	0.3	1 116-141(0.30)
gnl UG Hs#S14802394	0.69	1 2244-2271(0.69)
gnl UG Hs#S2294038	1.69	3 216-241(1.69) 290-315(0.30) 1437-1462(1.04)
gnl UG Hs#S10832276	1.07	1 563-587(1.07)
gnl UG Hs#S2329528	3.04	2 924-949(0.58) 1139-1164(3.04)
gnl UG Hs#S4824662	0.11	1 351-377(0.11)
gnl UG Hs#S2140231	4.52	8 199-224(0.85) 293-320(0.30) 611-636(0.58) 847-875(2.15) 1333-1361(1.98) 1849-1877(4.52) 1975-2000(2.14) 2506-2532(1.76)
gnl UG Hs#S3219667	3.62	1 904-929(3.62)
gnl UG Hs#S15730339	1.23	6 3-28(0.30) 54-80(0.84) 149-174(0.23) 1099-1123(1.23) 1186-1211(0.68) 1217-1241(0.22)
gnl UG Hs#S3601593	1.36	1 525-551(1.36)
gnl UG Hs#S1730027	2.23	4 478-504(0.12) 527-552(1.78) 669-696(0.13) 718-744(2.23)
gnl UG Hs#S3220152	3.29	4 47-72(3.29) 85-108(1.66) 305-329(2.24) 532-560(2.81)
gnl UG Hs#S1824517	2.75	5 198-223(0.55) 375-403(0.21) 699-724(1.90) 1343-1368(0.98) 1544-1569(2.75)
gnl UG Hs#S4435721	2.62	3 147-172(2.62) 356-381(2.37) 662-688(1.91)
gnl UG Hs#S3439957	0.07	1 638-663(0.07)
gnl UG Hs#S4435539	0.72	2 839-865(0.72) 2525-2550(0.72)
gnl UG Hs#S3219459	0.17	1 370-396(0.17)
gnl UG Hs#S4284544	0.2	1 880-905(0.20)
gnl UG Hs#S4808751	2.23	1 773-801(2.23)
gnl UG Hs#S5978587	0.97	1 174-199(0.97)
gnl UG Hs#S1726465	7.14	2 287-313(7.14) 705-731(1.30)
gnl UG Hs#S15634633	0.08	1 247-272(0.08)
gnl UG Hs#S10831468	2.5	1 297-323(2.50)
gnl UG Hs#S3219603	1.62	3 27-52(0.20) 177-202(1.62) 343-368(0.23)
gnl UG Hs#S4044808	1.13	3 905-932(0.76) 1193-1220(1.13) 1489-1515(0.36)
gnl UG Hs#S4620170	1.08	1 966-992(1.08)
gnl UG Hs#S2139619	1.58	2 1152-1177(1.58) 2502-2528(0.69)
gnl UG Hs#S2140647	0.65	1 425-450(0.65)
gnl UG Hs#S4284721	0.76	1 97-122(0.76)
gnl UG Hs#S1726995	1.89	2 216-241(0.19) 318-343(1.89)
gnl UG Hs#S2649428	1.09	1 55-81(1.09)
gnl UG Hs#S3880635	2.47	1 1710-1735(2.47)
gnl UG Hs#S2294244	1.4	1 1100-1125(1.40)
gnl UG Hs#S3619736	0.04	1 376-402(0.04)
gnl UG Hs#S4623470	1.62	1 1070-1095(1.62)
gnl UG Hs#S1726615	4.39	4 290-318(4.39) 670-695(1.94) 849-876(0.16) 1178-1203(1.07)
gnl UG Hs#S1728509	1.62	1 505-530(1.62)
gnl UG Hs#S4811239	1.63	4 1663-1689(0.69) 1799-1823(0.11) 2235-2260(1.63) 2418-2443(0.46)
gnl UG Hs#S2293978	2.33	7 392-421(0.30) 1422-1447(0.17) 1541-1567(1.50) 1586-1613(0.65) 1794-1819(0.40) 1854-1879(0.87) 1946-1972(2.33)
gnl UG Hs#S3987128	0.75	1 1958-1983(0.75)
gnl UG Hs#S2139675	2.6	4 1326-1351(1.78) 1737-1763(2.60) 1965-1992(0.39) 1998-2024(0.72)
gnl UG Hs#S15637704	1.98	3 336-361(0.29) 423-448(0.41) 605-631(1.98)
gnl UG Hs#S2140435	0.81	1 154-182(0.81)
gnl UG Hs#S3438527	3.08	2 278-304(3.08) 419-447(0.40)
gnl UG Hs#S4621595	2.52	2 53-78(1.46) 1373-1401(2.52)
gnl UG Hs#S4818576	2.88	2 329-357(1.33) 564-592(2.88)
gnl UG Hs#S3603864	2.08	4 835-861(0.79) 1092-1118(1.30) 1127-1153(2.08) 1251-1277(0.50)
gnl UG Hs#S4545972	2.82	5 42-67(1.68) 119-144(0.14) 701-729(0.38) 745-771(2.82) 868-896(1.59)

gnl UG Hs#S1730753	0.45	1	176-204(0.45)
gnl UG Hs#S2293317	0.58	1	2-28(0.58)
gnl UG Hs#S2294647	3.92	10	170-196(2.08) 398-423(0.52) 757-782(0.46) 1369-1395(1.74) 1468-1493(3.40) 2303-2329(1.88) 2348-2373(1.07) 2472-2497(2.17) 2738-2763(3.92) 2831-2857(0.93)
gnl UG Hs#S4617512	0.66	2	812-840(0.17) 856-882(0.66)
gnl UG Hs#S1727209	0.59	1	186-211(0.59)
gnl UG Hs#S1730981	0.26	1	380-405(0.26)
gnl UG Hs#S1726744	0.91	1	1659-1684(0.91)
gnl UG Hs#S2139495	1.5	3	523-549(0.04) 1187-1212(1.50) 3021-3047(0.36)
gnl UG Hs#S4840963	2.02	4	66-91(2.02) 308-333(0.72) 469-494(0.65) 1136-1162(0.30)
gnl UG Hs#S1729330	0.69	1	201-227(0.69)
gnl UG Hs#S1728626	2.07	2	196-221(2.07) 425-450(0.30)
gnl UG Hs#S2294509	0.07	1	161-189(0.07)
gnl UG Hs#S3619235	0.65	1	111-136(0.65)
gnl UG Hs#S3322139	1.26	1	138-163(1.26)
gnl UG Hs#S2138741	3.04	5	490-515(2.98) 1091-1116(3.04) 1655-1680(0.84) 2627-2653(0.24) 3192-3217(2.58)
gnl UG Hs#S1731749	3.23	4	129-154(1.40) 501-526(0.98) 545-571(3.23) 624-651(2.06)
gnl UG Hs#S3603840	3.52	1	324-349(3.52)
gnl UG Hs#S1727874	0.68	1	1535-1561(0.68)
gnl UG Hs#S5979265	2.34	5	1380-1408(0.30) 1580-1605(1.98) 2652-2677(0.08) 3104-3129(0.58) 3850-3876(2.34)
gnl UG Hs#S2139391	0.97	1	594-622(0.97)
gnl UG Hs#S1727276	0.3	1	1057-1082(0.30)
gnl UG Hs#S4554585	0.63	3	767-792(0.63) 823-846(0.49) 920-946(0.59)
gnl UG Hs#S4616718	0.8	1	1385-1410(0.80)
gnl UG Hs#S4822794	5.59	9	955-980(5.40) 1009-1034(5.26) 1643-1668(1.17) 2038-2067(1.81) 2157-2182(0.72) 2578-2603(1.04) 2944-2969(0.68) 3096-3124(1.07) 3248-3274(5.59)
gnl UG Hs#S4825815	6.74	12	331-356(0.17) 1433-1458(2.10) 1490-1518(1.04) 1676-1704(0.56) 1745-1770(0.39) 2942-2968(1.49) 4038-4063(1.20) 4836-4860(1.58) 5332-5357(6.74) 5418-5443(0.17) 5568-5594(3.17) 6766-6791
gnl UG Hs#S4613772	2.23	1	78-103(2.23)
gnl UG Hs#S10831567	2.88	1	651-676(2.88)
gnl UG Hs#S3619670	1.26	8	692-717(0.82) 2696-2724(0.81) 3102-3127(0.81) 5222-5247(0.98) 6135-6160(0.91) 6400-6425(1.26) 8031-8059(0.12) 8111-8136(0.52)
gnl UG Hs#S7112150	1.87	4	1164-1190(0.76) 1707-1731(1.87) 1742-1768(0.94) 1957-1982(1.14)
gnl UG Hs#S4813991	2.5	1	719-744(2.50)
gnl UG Hs#S5978488	2.14	1	1937-1961(2.14)
gnl UG Hs#S5978509	1.25	1	2052-2080(1.25)
gnl UG Hs#S3438756	2.33	1	221-246(2.33)
gnl UG Hs#S2140059	6.39	4	1224-1249(2.29) 1396-1423(6.39) 1441-1468(3.77) 1483-1510(0.07)
gnl UG Hs#S15639554	0.63	2	812-837(0.63) 1167-1192(0.36)
gnl UG Hs#S4831156	1.04	1	192-218(1.04)
gnl UG Hs#S2139137	0.34	1	1103-1128(0.34)
gnl UG Hs#S2294047	0.72	1	870-895(0.72)
gnl UG Hs#S4807666	2.04	2	342-367(1.07) 592-618(2.04)
gnl UG Hs#S3987557	0.92	1	656-681(0.92)
gnl UG Hs#S1729699	2.39	4	2949-2975(2.39) 3108-3135(0.11) 3957-3983(0.62) 3990-4016(0.26)
gnl UG Hs#S1728683	3.3	2	104-129(0.20) 238-263(3.30)
gnl UG Hs#S3355505	0.59	1	1510-1536(0.59)
gnl UG Hs#S5978411	0.23	1	1257-1283(0.23)
gnl UG Hs#S1726288	2.18	3	1835-1860(0.24) 2070-2095(0.72) 2228-2254(2.18)
gnl UG Hs#S3905630	2.56	2	1287-1312(1.13) 1403-1429(2.56)
gnl UG Hs#S2140011	0.36	1	53-78(0.36)
gnl UG Hs#S4617771	1.4	1	120-145(1.40)
gnl UG Hs#S5979203	2.17	3	654-680(0.89) 732-757(0.08) 770-796(2.17)
gnl UG Hs#S1732355	1.57	1	534-559(1.57)
gnl UG Hs#S3219210	2.79	1	184-209(2.79)
gnl UG Hs#S1730959	2.32	2	169-195(2.32) 303-329(1.40)
gnl UG Hs#S1730297	0.79	1	465-490(0.79)
gnl UG Hs#S5930942	2.75	2	2716-2741(2.75) 3112-3137(0.43)

gnl UG Hs#S4553802	0.14	1	286-312(0.14)
gnl UG Hs#S3438810	0.14	1	280-305(0.14)
gnl UG Hs#S3619362	0.72	1	216-242(0.72)
gnl UG Hs#S1731119	5.05	3	446-471(5.05) 1375-1400(1.84) 2479-2504(1.30)
gnl UG Hs#S4435930	1.89	2	769-794(1.89) 1199-1224(1.14)
gnl UG Hs#S3218959	1.07	1	975-1003(1.07)
gnl UG Hs#S1729640	1.21	1	460-485(1.21)
gnl UG Hs#S2293164	1.69	1	50-75(1.69)
gnl UG Hs#S1730264	0.91	3	41-71(0.06) 286-311(0.91) 431-457(0.17)
gnl UG Hs#S2294329	2.92	2	813-838(0.94) 917-943(2.92)
gnl UG Hs#S3940101	0.01	1	364-392(0.01)
gnl UG Hs#S4811554	4.7	1	320-345(4.70)
gnl UG Hs#S3219116	1.89	2	116-141(0.81) 207-233(1.89)
gnl UG Hs#S3781824	0.65	2	385-413(0.49) 438-463(0.65)
gnl UG Hs#S1730538	4.21	5	182-207(4.21) 311-336(0.04) 1270-1296(0.04) 1476-1503(1.07) 1990-2015(1.30)
gnl UG Hs#S3972985	1.96	2	174-199(0.79) 528-553(1.96)
gnl UG Hs#S1731394	1.69	4	139-164(0.40) 165-191(0.27) 405-430(0.35) 906-932(1.69)
gnl UG Hs#S1727074	2.13	1	4-29(2.13)
gnl UG Hs#S1726411	0.3	1	164-192(0.30)
gnl UG Hs#S3601687	1.04	1	66-91(1.04)
gnl UG Hs#S3825992	3.08	2	359-386(3.08) 953-978(2.74)
gnl UG Hs#S1263773	1.53	5	118-144(1.53) 261-286(1.10) 553-580(1.24) 862-887(1.50) 2032-2057(1.40)
gnl UG Hs#S7111003	0.65	1	42-68(0.65)
gnl UG Hs#S1726399	3.04	8	301-326(0.26) 336-362(2.40) 829-854(1.94) 1454-1479(0.56) 1514-1537(0.07) 1784-1812(2.43) 4791-4816(3.04) 5246-5272(0.04)
gnl UG Hs#S11590997	3.89	1	72-97(3.89)
gnl UG Hs#S3438952	2.08	1	79-105(2.08)
gnl UG Hs#S1569765	0.46	1	1814-1839(0.46)
gnl UG Hs#S1728698	0.94	1	1173-1198(0.94)
gnl UG Hs#S4045141	3.04	10	221-246(0.04) 642-667(0.11) 724-750(2.94) 806-831(0.26) 1058-1083(3.04) 1095-1120(0.79) 1182-1208(0.26) 1385-1410(0.08) 1421-1446(0.84) 1472-1499(0.82)
gnl UG Hs#S14812864	1.77	1	198-224(1.77)
gnl UG Hs#S7110163	2.55	4	441-467(0.58) 767-792(1.30) 1125-1150(2.55) 1260-1285(2.20)
gnl UG Hs#S4810462	0.2	1	2352-2377(0.20)
gnl UG Hs#S15638189	0.81	1	706-731(0.81)
gnl UG Hs#S3218997	0.72	1	130-155(0.72)
gnl UG Hs#S4822332	2.53	5	237-261(0.19) 361-384(0.98) 640-665(2.53) 672-701(0.37) 1619-1645(0.57)
gnl UG Hs#S3988470	2.13	2	383-408(0.07) 1083-1108(2.13)
gnl UG Hs#S1731504	0.08	1	368-394(0.08)
gnl UG Hs#S4817813	0.91	1	458-484(0.91)
gnl UG Hs#S1730993	3.11	4	1073-1098(0.91) 2289-2315(0.17) 2998-3027(1.24) 4274-4299(3.11)
gnl UG Hs#S2293190	0.11	1	1965-1991(0.11)
gnl UG Hs#S1731908	3.5	1	402-427(3.50)
gnl UG Hs#S4820012	1.68	2	538-563(1.68) 3257-3282(0.75)
gnl UG Hs#S1729587	0.52	1	694-722(0.52)
gnl UG Hs#S3218876	4.96	10	299-325(0.17) 627-652(1.98) 1101-1126(4.96) 1176-1204(0.04) 1225-1250(0.04) 1503-1529(1.34) 1576-1602(2.17) 1882-1906(0.51) 1920-1945(2.11) 1970-1998(0.62)
gnl UG Hs#S1090762	1.46	1	903-928(1.46)
gnl UG Hs#S4807885	1.34	2	319-345(1.34) 411-436(0.91)
gnl UG Hs#S15644507	0.91	2	808-834(0.30) 1366-1391(0.91)
gnl UG Hs#S3438579	1.1	2	176-204(0.30) 327-350(1.10)
gnl UG Hs#S2293239	5.14	5	14-39(4.70) 49-75(1.86) 394-418(0.03) 676-701(0.53) 1041-1066(5.14)
gnl UG Hs#S1728219	0.3	1	56-84(0.30)
gnl UG Hs#S4396111	1.15	2	157-182(0.94) 598-626(1.15)
gnl UG Hs#S1731771	1.57	2	319-344(1.57) 449-472(1.07)
gnl UG Hs#S1971606	1.75	2	96-121(1.75) 229-254(0.67)
gnl UG Hs#S2139482	3.67	5	37-63(0.55) 80-106(0.91) 616-641(0.91) 1177-1202(3.67) 1853-1878(2.17)

gnl UG Hs#S3619272	3.3	2 233-258(3.30) 314-339(0.40)
gnl UG Hs#S1731782	2.21	1 174-200(2.21)
gnl UG Hs#S2139861	2.3	1 510-535(2.30)
gnl UG Hs#S2293200	0.98	3 1023-1048(0.17) 1236-1262(0.52) 1812-1838(0.98)
gnl UG Hs#S2138873	4.61	7 420-451(0.77) 1511-1538(1.53) 1831-1857(0.15) 2949-2974(2.04) 2998-3024(0.36) 3187-3212(4.61) 3240-3265(0.72)
gnl UG Hs#S4620579	1.62	2 207-230(1.62) 443-468(0.21)
gnl UG Hs#S4621137	0.65	2 593-620(0.00) 1255-1280(0.65)
gnl UG Hs#S4619629	2.6	1 609-635(2.60)
gnl UG Hs#S5978461	0.04	1 612-637(0.04)
gnl UG Hs#S2293270	0.04	1 477-502(0.04)
gnl UG Hs#S3940071	0.03	1 182-207(0.03)
gnl UG Hs#S1569555	0.13	1 316-341(0.13)
gnl UG Hs#S2138958	0.98	2 531-557(0.98) 2040-2068(0.30)
gnl UG Hs#S1726372	3.04	1 12-40(3.04)
gnl UG Hs#S1730691	1.3	1 77-105(1.30)
gnl UG Hs#S3439466	1.3	1 2171-2196(1.30)
gnl UG Hs#S2139298	0.11	1 363-389(0.11)
gnl UG Hs#S11046607	0.03	1 340-367(0.03)
gnl UG Hs#S3438936	2.07	1 575-600(2.07)
gnl UG Hs#S1727614	2.11	4 298-323(2.11) 400-426(0.69) 480-506(0.07) 630-656(1.53)
gnl UG Hs#S1728680	2.91	3 117-142(2.91) 391-416(0.11) 551-577(0.11)
gnl UG Hs#S1728727	0.27	1 588-616(0.27)
gnl UG Hs#S4046157	2.89	5 608-634(2.38) 728-754(2.89) 908-935(1.56) 1030-1055(0.46) 1254-1280(1.82)
gnl UG Hs#S7113302	2.14	4 953-979(1.98) 1761-1789(2.14) 1858-1883(1.57) 1955-1980(0.81)
gnl UG Hs#S2140723	2.17	1 173-201(2.17)
gnl UG Hs#S1728149	0.13	1 213-239(0.13)
gnl UG Hs#S1726531	5.95	2 95-120(5.95) 189-214(2.50)
gnl UG Hs#S1731821	1.58	3 867-894(0.25) 1064-1092(0.16) 1161-1186(1.58)
gnl UG Hs#S5516762	0.82	2 134-160(0.82) 612-640(0.38)
gnl UG Hs#S1726545	0.01	1 118-143(0.01)
gnl UG Hs#S4284741	1.94	1 222-247(1.94)
gnl UG Hs#S15639540	0.04	1 65-90(0.04)
gnl UG Hs#S1731601	3.91	2 29-54(0.45) 83-111(3.91)
gnl UG Hs#S14802252	0.17	1 195-221(0.17)
gnl UG Hs#S1728384	0.5	1 760-785(0.50)
gnl UG Hs#S4815459	3.94	1 2238-2263(3.94)
gnl UG Hs#S3438381	0.23	1 739-764(0.23)
gnl UG Hs#S1732317	1.98	8 54-79(0.72) 355-380(0.15) 558-583(1.98) 1015-1041(0.67) 1311-1336(0.40) 1578-1601(1.59) 1721-1747(0.50) 1860-1886(1.91)
gnl UG Hs#S7110140	0.57	2 529-557(0.23) 1954-1979(0.57)
gnl UG Hs#S2293932	1.39	3 759-784(1.39) 1330-1358(0.79) 2076-2103(1.07)
gnl UG Hs#S1972763	3.79	2 37-62(3.79) 2717-2743(0.46)
gnl UG Hs#S3219182	2.46	1 400-425(2.46)
gnl UG Hs#S1731877	1.4	1 529-555(1.40)
gnl UG Hs#S7111993	1.07	1 1218-1243(1.07)
gnl UG Hs#S15644064	2.87	10 271-296(1.89) 1400-1428(0.59) 1514-1542(1.52) 1568-1593(0.50) 1721-1746(2.62) 2233-2258(0.40) 2488-2515(1.27) 2948-2974(2.36) 3480-3505(0.62) 3543-3568(2.87)
gnl UG Hs#S2293915	2.01	2 376-401(0.30) 534-560(2.01)
gnl UG Hs#S14902423	0.14	1 69-95(0.14)
gnl UG Hs#S14863780	2.59	1 259-285(2.59)
gnl UG Hs#S4814818	1.69	2 71-97(1.02) 388-414(1.69)
gnl UG Hs#S4619579	1.47	1 1486-1513(1.47)
gnl UG Hs#S2294390	0.89	1 681-707(0.89)
gnl UG Hs#S1729220	1.23	1 1342-1367(1.23)
gnl UG Hs#S2139960	0.14	1 34-59(0.14)
gnl UG Hs#S4808730	1.59	1 92-120(1.59)

gnl UG Hs#S3438723	1.13	1 70-95(1.13)
gnl UG Hs#S3219831	0.55	1 388-413(0.55)
gnl UG Hs#S2140290	3.4	3 207-233(0.47) 260-286(3.40) 534-561(0.33)
gnl UG Hs#S3601558	2.02	7 442-466(2.02) 503-528(1.43) 637-663(0.53) 952-978(0.49) 1274-1300(0.27) 1510-1534(0.67) 1903-1931(1.08)
gnl UG Hs#S1727319	1.47	1 222-247(1.47)
gnl UG Hs#S4046400	0.88	7 363-389(0.30) 474-501(0.88) 1145-1171(0.24) 1492-1518(0.40) 1651-1677(0.82) 2056-2082(0.72) 2116-2142(0.04)
gnl UG Hs#S1729365	1.43	4 92-118(1.43) 367-392(0.40) 547-572(0.48) 669-697(0.49)
gnl UG Hs#S3322164	2.79	2 574-599(1.25) 765-790(2.79)
gnl UG Hs#S5978454	2.5	2 285-311(2.50) 735-761(0.62)
gnl UG Hs#S1731641	1.65	1 244-269(1.65)
gnl UG Hs#S15641235	0.62	1 108-133(0.62)
gnl UG Hs#S15631753	2.13	1 463-489(2.13)
gnl UG Hs#S1729359	4.52	3 170-198(4.52) 294-320(0.04) 425-451(3.27)
gnl UG Hs#S1731251	1.01	1 71-97(1.01)
gnl UG Hs#S2293928	3.73	5 338-364(3.08) 680-705(3.73) 1388-1411(1.17) 1743-1770(0.62) 1773-1802(1.37)
gnl UG Hs#S5978657	1.3	1 1045-1070(1.30)
gnl UG Hs#S1731480	2.63	1 361-386(2.63)
gnl UG Hs#S1728419	1.17	2 868-898(0.84) 931-956(1.17)
gnl UG Hs#S3619226	3.05	1 426-452(3.05)
gnl UG Hs#S1730928	3.62	4 169-194(0.94) 1001-1029(1.88) 1113-1140(2.56) 1224-1249(3.62)
gnl UG Hs#S3601649	4.4	4 266-291(1.94) 680-705(4.40) 972-997(2.43) 1064-1089(0.54)
gnl UG Hs#S1730446	0.65	1 151-176(0.65)
gnl UG Hs#S3219734	0.72	1 350-375(0.72)
gnl UG Hs#S1726430	3.89	9 226-252(0.11) 255-284(1.97) 387-412(1.21) 343-370(0.65) 482-510(0.68) 1336-1361(2.04) 1529-1554(3.11) 1919-1944(3.89) 1966-1991(3.50)
gnl UG Hs#S14802389	2.26	1 944-969(2.26)
gnl UG Hs#S4435556	0.14	1 258-283(0.14)
gnl UG Hs#S15636704	4.78	1 820-845(4.78)
gnl UG Hs#S6163424	2.47	7 797-822(0.40) 1272-1298(1.59) 1652-1676(0.15) 2487-2510(2.47) 2888-2914(1.62) 3053-3079(1.17) 3297-3322(0.04)
gnl UG Hs#S1728405	3.76	9 64-89(0.17) 123-149(3.76) 930-954(2.07) 1053-1078(0.30) 2640-2666(1.01) 3113-3141(0.10) 3425-3450(3.04) 3607-3635(0.07) 3849-3874(1.62)
gnl UG Hs#S4813383	3.23	2 2619-2644(3.23) 2706-2734(0.41)
gnl UG Hs#S3218960	2.83	4 159-185(2.33) 221-247(0.76) 277-302(2.79) 503-532(2.83)
gnl UG Hs#S3619243	2.05	2 1048-1073(0.11) 1296-1323(2.05)
gnl UG Hs#S15643589	0.17	1 32-60(0.17)
gnl UG Hs#S1730733	0.47	2 31-57(0.47) 795-820(0.08)
gnl UG Hs#S2293550	4.57	1 25-50(4.57)
gnl UG Hs#S4823963	0.07	1 65-91(0.07)
gnl UG Hs#S4554634	0.76	1 1412-1438(0.76)
gnl UG Hs#S15643139	0.69	2 287-313(0.69) 582-609(0.44)
gnl UG Hs#S5495034	2.17	1 158-183(2.17)
gnl UG Hs#S7110197	1.32	3 894-919(1.32) 1108-1134(0.50) 1408-1436(0.16)
gnl UG Hs#S1729477	3.59	4 772-797(0.33) 1221-1247(1.36) 1314-1337(3.59) 1414-1438(0.04)
gnl UG Hs#S2294258	0.58	1 964-990(0.58)
gnl UG Hs#S5930972	1.04	1 499-525(1.04)
gnl UG Hs#S2139251	3.3	2 342-368(3.30) 2186-2211(0.08)
gnl UG Hs#S1729708	2.08	1 488-514(2.08)
gnl UG Hs#S1824463	0.31	1 39-65(0.31)
gnl UG Hs#S4820059	1.74	1 881-905(1.74)
gnl UG Hs#S2139208	1.15	1 445-470(1.15)
gnl UG Hs#S14273369	1.06	1 875-898(1.06)
gnl UG Hs#S3219024	0.79	2 285-311(0.01) 329-354(0.79)
gnl UG Hs#S1730370	3.75	1 235-263(3.75)
gnl UG Hs#S6159082	1.68	3 1488-1511(0.51) 1541-1567(1.34) 2009-2036(1.68)
gnl UG Hs#S3220218	4.93	1 836-861(4.93)
gnl UG Hs#S1729752	2.15	2 1-26(1.53) 385-411(2.15)

gnl UG Hs#S3219157	1.62	2	921-946(1.62) 1221-1246(1.13)
gnl UG Hs#S2138924	5.41	3	135-162(0.71) 831-858(0.87) 886-913(5.41)
gnl UG Hs#S4630979	0.33	1	802-830(0.33)
gnl UG Hs#S1727336	3.89	6	5-31(0.75) 99-122(2.24) 281-307(0.20) 444-469(3.89) 497-522(3.30) 644-669(0.47)
gnl UG Hs#S1730094	0.86	2	352-377(0.39) 379-405(0.86)
gnl UG Hs#S14802643	2.67	5	693-718(0.17) 967-992(1.04) 1005-1030(1.04) 1342-1367(2.67) 2497-2522(0.40)
gnl UG Hs#S3219673	2.3	3	490-516(0.01) 538-564(0.72) 604-630(2.30)
gnl UG Hs#S1729751	0.76	1	479-504(0.76)
gnl UG Hs#S1728911	2.4	1	107-133(2.40)
gnl UG Hs#S3438984	5.53	3	1212-1240(0.81) 1307-1332(5.53) 1352-1377(0.62)
gnl UG Hs#S15898584	1.65	2	228-253(1.65) 291-317(0.04)
gnl UG Hs#S2139026	4.11	1	66-91(4.11)
gnl UG Hs#S14812596	0.07	1	1021-1049(0.07)
gnl UG Hs#S3601668	1.04	1	277-302(1.04)
gnl UG Hs#S1728836	0.99	1	50-75(0.99)
gnl UG Hs#S3438409	4.62	1	179-204(4.62)
gnl UG Hs#S4435925	4.82	9	84-110(1.23) 260-286(1.11) 371-396(0.07) 429-453(2.66) 563-589(1.33) 767-793(4.82) 1363-1390(0.84) 1828-1851(1.54) 1955-1981(1.17)
gnl UG Hs#S2293675	0.17	1	382-405(0.17)
gnl UG Hs#S15639201	2.62	3	607-632(1.26) 769-794(1.98) 1010-1038(2.62)
gnl UG Hs#S4830218	2.52	6	344-370(0.17) 441-466(1.20) 1239-1265(2.17) 1345-1370(2.30) 1533-1559(0.01) 1806-1834(2.52)
gnl UG Hs#S15846839	1.58	1	935-961(1.58)
gnl UG Hs#S2293348	1.33	1	838-863(1.33)
gnl UG Hs#S4810416	2.3	2	944-969(0.23) 1783-1811(2.30)
gnl UG Hs#S2139520	4.39	11	318-343(4.39) 285-310(0.01) 1021-1044(1.62) 1550-1577(0.03) 1764-1792(0.50) 2529-2554(2.79) 2660-2685(0.20) 3024-3049(0.23) 3729-3755(0.08) 4495-4519(1.80) 4854-4882(2.55)
gnl UG Hs#S1728364	3.38	1	29-56(3.38)
gnl UG Hs#S5978526	3.72	1	59-85(3.72)
gnl UG Hs#S2294168	1.28	3	236-264(0.00) 758-781(1.28) 985-1011(0.08)
gnl UG Hs#S4554619	2.76	1	60-85(2.76)
gnl UG Hs#S1730327	6.46	6	41-69(0.81) 554-582(2.62) 867-892(6.46) 921-947(0.71) 963-988(2.10) 1007-1032(0.89)
gnl UG Hs#S816459	6.14	2	151-176(6.14) 896-924(2.40)
gnl UG Hs#S1730481	3.72	4	2206-2231(1.58) 2272-2297(0.65) 2507-2532(3.72) 2551-2576(1.40)
gnl UG Hs#S2139276	3.57	5	300-325(3.57) 619-644(0.72) 729-754(0.94) 939-965(2.27) 1054-1079(0.62)
gnl UG Hs#S4807657	0.88	1	17-45(0.88)
gnl UG Hs#S12744030	2.81	1	243-271(2.81)
gnl UG Hs#S2140147	2.72	2	366-391(0.08) 571-597(2.72)
gnl UG Hs#S15631719	0.3	1	1081-1106(0.30)
gnl UG Hs#S3219867	0.5	1	223-248(0.50)
gnl UG Hs#S11047213	3.97	7	36-64(2.08) 840-865(0.53) 913-938(2.89) 1333-1358(3.52) 1538-1564(0.30) 1566-1591(3.97) 1845-1869(2.94)
gnl UG Hs#S1731174	0.76	2	222-248(0.66) 508-535(0.76)
gnl UG Hs#S4545973	0.17	1	1255-1281(0.17)
gnl UG Hs#S4826230	3.23	7	287-315(0.04) 594-620(3.23) 2065-2090(1.72) 2288-2314(0.17) 2469-2495(1.76) 2867-2892(3.04) 2921-2947(1.79)
gnl UG Hs#S1727925	4.2	1	292-320(4.20)
gnl UG Hs#S4046181	0.81	1	469-497(0.81)
gnl UG Hs#S2139692	1.53	2	138-162(0.59) 191-214(1.53)
gnl UG Hs#S1731742	1.69	2	234-260(1.69) 375-401(0.02)
gnl UG Hs#S5517587	1.67	2	158-183(1.67) 422-449(1.48)
gnl UG Hs#S3438558	4.8	5	368-394(2.04) 668-695(0.50) 1211-1235(4.80) 1898-1923(0.40) 1938-1962(2.04)
gnl UG Hs#S1728175	1.37	1	812-838(1.37)
gnl UG Hs#S4813839	3.68	1	2035-2061(3.68)
gnl UG Hs#S1732460	0.49	1	1020-1048(0.49)
gnl UG Hs#S3619144	3.13	1	327-355(3.13)
gnl UG Hs#S1731128	0.2	1	80-105(0.20)
gnl UG Hs#S15631525	2.56	1	517-543(2.56)
gnl UG Hs#S2294487	2.24	2	335-363(2.24) 405-430(0.97)

gnl UG Hs#S3803667	0.69	1	208-234(0.69)
gnl UG Hs#S1726226	1.68	3	222-246(1.68) 825-849(0.52) 1165-1193(0.04)
gnl UG Hs#S14802698	2.62	5	257-285(0.21) 457-480(2.62) 1081-1106(0.91) 1563-1592(0.06) 2132-2156(0.20)
gnl UG Hs#S4813350	0.5	3	75-101(0.50) 228-256(0.08) 366-393(0.39)
gnl UG Hs#S10831847	1.68	3	2820-2846(1.57) 3164-3190(0.59) 3791-3816(1.68)
gnl UG Hs#S5979260	1.44	7	243-268(1.07) 384-411(1.44) 471-496(0.65) 692-717(0.98) 748-773(1.26) 1144-1168(0.84) 1240-1266(1.17)
gnl UG Hs#S11590892	0.1	1	193-220(0.10)
gnl UG Hs#S1728171	0.62	2	378-403(0.57) 409-432(0.62)
gnl UG Hs#S4553573	1.89	4	2-28(0.72) 749-774(1.89) 1158-1184(0.46) 1754-1782(1.78)
gnl UG Hs#S4631495	1.34	3	162-187(0.30) 709-735(0.79) 1133-1159(1.34)
gnl UG Hs#S15632017	1.3	1	380-403(1.30)
gnl UG Hs#S3601710	5.11	3	87-112(5.11) 1453-1478(1.30) 1587-1612(0.79)
gnl UG Hs#S2293199	1.23	2	776-802(1.23) 1175-1200(0.75)
gnl UG Hs#S1824436	1.89	1	3803-3829(1.89)
gnl UG Hs#S15636775	0.98	2	673-698(0.98) 985-1011(0.79)
gnl UG Hs#S2139059	2.17	1	439-464(2.17)
gnl UG Hs#S4285047	1.3	1	186-211(1.30)
gnl UG Hs#S11046669	0.01	1	845-873(0.01)
gnl UG Hs#S4807771	1.08	1	468-493(1.08)
gnl UG Hs#S3972978	0.98	2	674-699(0.98) 986-1012(0.79)
gnl UG Hs#S1824529	1.72	6	296-321(0.11) 812-839(0.47) 1164-1189(0.72) 1512-1537(1.72) 1578-1605(1.66) 1661-1686(0.20)
gnl UG Hs#S3619106	3.78	4	1285-1312(0.33) 2282-2307(1.43) 3261-3285(3.78) 3308-3332(0.03)
gnl UG Hs#S2138979	0.72	1	422-448(0.72)
gnl UG Hs#S1730707	2.2	1	265-293(2.20)
gnl UG Hs#S1729397	1.23	3	38-64(0.37) 151-177(1.23) 373-399(0.94)
gnl UG Hs#S2139165	4.08	1	1151-1177(4.08)
gnl UG Hs#S5978436	1.58	1	238-264(1.58)
gnl UG Hs#S4836499	2.33	1	319-345(2.33)
gnl UG Hs#S5860342	1.42	1	1362-1389(1.42)
gnl UG Hs#S3439001	1.3	1	659-685(1.30)
gnl UG Hs#S1969146	2.79	10	362-387(2.79) 590-616(1.41) 759-785(0.10) 1268-1293(0.68) 1655-1680(1.46) 1695-1723(0.72) 1866-1891(2.20) 1922-1947(0.98) 2355-2380(0.33) 2517-2543(0.72)
gnl UG Hs#S1727581	0.98	2	1110-1136(0.53) 1160-1186(0.98)
gnl UG Hs#S2139636	0.3	1	349-372(0.30)
gnl UG Hs#S4815421	2.3	3	426-451(1.00) 1332-1357(2.30) 1472-1497(0.58)
gnl UG Hs#S1727540	0.13	1	590-616(0.13)
gnl UG Hs#S1727369	0.18	1	176-202(0.18)
gnl UG Hs#S4825433	5.46	7	632-657(5.46) 675-698(0.87) 965-990(3.89) 1005-1028(2.31) 1041-1067(3.04) 1264-1289(0.30) 1321-1346(2.78)
gnl UG Hs#S1728830	2.37	2	161-188(2.37) 198-223(0.97)
gnl UG Hs#S4554657	0.04	1	22-48(0.04)
gnl UG Hs#S4436500	1.04	1	1046-1074(1.04)
gnl UG Hs#S3219580	1.3	1	327-352(1.30)
gnl UG Hs#S3619631	1.72	1	20-46(1.72)
gnl UG Hs#S5978487	0.26	1	2200-2225(0.26)
gnl UG Hs#S11046545	0.47	1	594-623(0.47)
gnl UG Hs#S1728693	2.43	1	216-241(2.43)
gnl UG Hs#S1726555	0.11	1	408-434(0.11)
gnl UG Hs#S3987748	2.3	2	23-51(2.30) 166-191(0.74)
gnl UG Hs#S4826691	0.83	2	333-359(0.83) 578-602(0.56)
gnl UG Hs#S1730069	0.43	1	410-436(0.43)
gnl UG Hs#S3619300	2.23	2	763-788(0.24) 1196-1221(2.23)
gnl UG Hs#S1726360	2.78	2	1183-1209(0.27) 1222-1249(2.78)
gnl UG Hs#S15115732	0.43	1	1267-1292(0.43)
gnl UG Hs#S2139444	0.17	1	276-302(0.17)
gnl UG Hs#S1732156	0.3	1	971-996(0.30)

gnl UG Hs#S1726706	2.37	1	56-81(2.37)
gnl UG Hs#S2293523	3.32	1	87-113(3.32)
gnl UG Hs#S3219774	0.4	1	709-735(0.40)
gnl UG Hs#S2293426	2.78	3	415-440(2.78) 1031-1056(2.72) 1183-1211(0.85)
gnl UG Hs#S4623439	1.24	2	349-374(1.24) 648-673(1.15)
gnl UG Hs#S3220056	0.24	1	290-315(0.24)
gnl UG Hs#S4821486	1.72	1	1737-1762(1.72)
gnl UG Hs#S14272939	0.32	1	592-615(0.32)
gnl UG Hs#S2138756	2.43	1	247-273(2.43)
gnl UG Hs#S2293736	3.89	2	4-29(3.89) 450-479(0.39)
gnl UG Hs#S11154082	0.11	2	1536-1562(0.11) 1657-1682(0.09)
gnl UG Hs#S4631398	0.8	4	604-632(0.01) 665-688(0.80) 838-862(0.08) 951-976(0.11)
gnl UG Hs#S3881174	2.82	1	1290-1316(2.82)
gnl UG Hs#S4553792	2.9	1	76-101(2.90)
gnl UG Hs#S3438635	3.13	3	100-125(0.98) 1473-1499(3.13) 1807-1835(1.37)
gnl UG Hs#S2138851	0.18	1	489-517(0.18)
gnl UG Hs#S4829260	0.82	3	1123-1149(0.82) 1724-1750(0.04) 1856-1881(0.72)
gnl UG Hs#S4807560	3.78	1	173-198(3.78)
gnl UG Hs#S11046742	0.43	1	144-170(0.43)
gnl UG Hs#S705558	0.3	1	1312-1337(0.30)
gnl UG Hs#S1729372	1.2	1	827-852(1.20)
gnl UG Hs#S1730951	0.3	1	59-84(0.30)
gnl UG Hs#S15641830	4.3	5	31-56(1.34) 543-568(4.30) 754-779(0.65) 786-814(0.30) 1581-1606(2.72)
gnl UG Hs#S10831803	1.3	4	139-164(0.67) 204-229(0.46) 291-316(1.30) 401-426(1.07)
gnl UG Hs#S2139976	0.24	1	132-158(0.24)
gnl UG Hs#S10831729	0.53	1	1344-1367(0.53)
gnl UG Hs#S4821111	1.39	2	656-681(1.39) 705-730(0.36)
gnl UG Hs#S3547217	0.91	2	337-362(0.01) 1075-1103(0.91)
gnl UG Hs#S3355494	0.46	1	127-152(0.46)
gnl UG Hs#S4817859	3.46	3	2131-2156(1.15) 2164-2190(0.08) 2820-2845(3.46)
gnl UG Hs#S2293814	1.16	3	336-361(0.98) 419-445(0.26) 497-525(1.16)
gnl UG Hs#S14802414	3.89	10	89-115(2.50) 290-315(0.58) 755-780(1.46) 1234-1259(3.89) 1270-1295(2.58) 1608-1634(1.25) 1723-1748(1.80) 1825-1850(1.84) 2044-2072(0.48) 3418-3443(0.65)
gnl UG Hs#S3803102	0.52	1	625-650(0.52)
gnl UG Hs#S1730070	1.4	1	1158-1184(1.40)
gnl UG Hs#S3619568	2.08	1	378-403(2.08)
gnl UG Hs#S1824288	0.8	3	379-407(0.65) 1200-1227(0.43) 1443-1469(0.80)
gnl UG Hs#S4283975	1.15	1	2137-2162(1.15)
gnl UG Hs#S4807857	0.71	2	609-637(0.71) 714-737(0.26)
gnl UG Hs#S2293822	1.56	1	612-637(1.56)
gnl UG Hs#S3603216	1.84	1	367-392(1.84)
gnl UG Hs#S3220116	0.66	1	227-252(0.66)
gnl UG Hs#S5978574	0.91	1	717-742(0.91)
gnl UG Hs#S4807850	1.03	1	545-571(1.03)
gnl UG Hs#S15639035	0.53	2	265-290(0.53) 294-319(0.53)
gnl UG Hs#S1730396	1.14	1	107-132(1.14)
gnl UG Hs#S1729449	2.71	2	360-387(2.71) 487-512(1.30)
gnl UG Hs#S3619628	0.16	1	569-593(0.16)
gnl UG Hs#S3355628	2.46	2	327-352(1.11) 629-654(2.46)
gnl UG Hs#S3355700	0.91	1	520-546(0.91)
gnl UG Hs#S1727179	0.94	2	10-35(0.91) 67-94(0.94)
gnl UG Hs#S5495007	0.23	1	861-886(0.23)
gnl UG Hs#S1732105	1.21	3	116-142(0.76) 413-438(1.21) 608-633(1.07)
gnl UG Hs#S1731999	1.82	1	301-327(1.82)
gnl UG Hs#S4045037	1.98	1	363-388(1.98)

gnl UG Hs#S2294315	0.17	1	23-48(0.17)
gnl UG Hs#S2293409	5.08	2	387-412(0.62) 1131-1157(5.08)
gnl UG Hs#S3973086	1.5	1	472-498(1.50)
gnl UG Hs#S2138988	3.11	3	172-197(1.30) 291-315(1.08) 393-418(3.11)
gnl UG Hs#S1728136	1.84	4	211-237(0.86) 408-433(0.68) 641-666(1.84) 809-835(0.78)
gnl UG Hs#S4807814	1.33	1	192-218(1.33)
gnl UG Hs#S15642952	2.25	1	1024-1049(2.25)
gnl UG Hs#S1727806	1.66	1	176-201(1.66)
gnl UG Hs#S4284228	2.43	3	518-541(0.89) 1145-1170(0.26) 2289-2314(2.43)
gnl UG Hs#S11154035	0.14	1	317-343(0.14)
gnl UG Hs#S3619561	1.07	2	709-734(0.80) 1149-1173(1.07)
gnl UG Hs#S4806748	1.98	1	555-580(1.98)
gnl UG Hs#S15631500	4.68	2	194-219(4.68) 785-812(0.88)
gnl UG Hs#S2138731	1.34	2	519-546(1.00) 554-577(1.34)
gnl UG Hs#S5978620	0.2	2	1684-1709(0.03) 4303-4328(0.20)
gnl UG Hs#S4284289	2.53	3	413-441(0.07) 659-685(2.46) 2246-2271(2.53)
gnl UG Hs#S1727551	5.66	5	352-377(0.13) 883-911(0.88) 925-950(5.66) 1284-1312(0.64) 1839-1861(0.27)
gnl UG Hs#S1728887	2.75	2	616-641(2.75) 920-948(0.91)
gnl UG Hs#S3543451	0.2	1	472-497(0.20)
gnl UG Hs#S1726886	7.66	1	409-435(7.66)
gnl UG Hs#S3837442	0.23	1	358-383(0.23)
gnl UG Hs#S2138894	4.3	6	918-946(0.23) 1518-1545(2.39) 1727-1752(0.04) 1837-1863(0.59) 3814-3839(4.30) 3905-3930(0.04)
gnl UG Hs#S15632890	1.43	3	502-529(0.29) 567-593(1.43) 1244-1270(0.86)
gnl UG Hs#S3601578	0.56	1	1442-1466(0.56)
gnl UG Hs#S1728216	0.76	1	205-231(0.76)
gnl UG Hs#S4001823	1.35	1	288-313(1.35)
gnl UG Hs#S1728884	1.61	3	808-833(1.27) 1566-1591(1.61) 1619-1645(0.58)
gnl UG Hs#S2293397	2.2	3	390-418(0.14) 444-471(2.20) 994-1020(0.91)
gnl UG Hs#S6091898	1.03	2	252-277(0.53) 351-378(1.03)
gnl UG Hs#S1728540	2.79	3	110-135(0.57) 392-415(2.79) 1163-1188(0.89)
gnl UG Hs#S15636918	2.67	1	173-198(2.67)
gnl UG Hs#S2139643	3.74	14	3-31(0.23) 99-124(0.40) 468-493(0.94) 842-866(2.36) 815-840(0.50) 1273-1298(1.58) 1459-1484(0.65) 1670-1698(1.30) 1715-1742(0.51) 2196-2224(3.74) 2317-2342(0.94) 2974-3000(1.21) 3028-30
gnl UG Hs#S4827258	3.04	1	301-326(3.04)
gnl UG Hs#S5495028	2.76	1	185-211(2.76)
gnl UG Hs#S1729229	2.37	1	96-124(2.37)
gnl UG Hs#S3619261	0.59	1	15-43(0.59)
gnl UG Hs#S1727995	2.99	2	1427-1452(1.98) 1920-1946(2.99)
gnl UG Hs#S10832230	0.13	1	529-553(0.13)
gnl UG Hs#S4841821	2.9	2	576-602(2.50) 1173-1197(2.90)
gnl UG Hs#S2294259	3.54	4	685-709(1.14) 849-874(0.15) 1408-1433(3.54) 1847-1872(1.39)
gnl UG Hs#S2293524	3.18	1	496-521(3.18)
gnl UG Hs#S4545966	4.01	1	457-483(4.01)
gnl UG Hs#S15631439	0.82	1	737-763(0.82)
gnl UG Hs#S3333475	2.57	1	71-96(2.57)
gnl UG Hs#S3333648	0.94	1	117-142(0.94)
gnl UG Hs#S1726522	0.78	1	179-204(0.78)
gnl UG Hs#S2139505	1.43	2	168-193(0.30) 217-242(1.43)
gnl UG Hs#S2139616	0.77	3	223-247(0.45) 1163-1189(0.77) 1460-1485(0.07)
gnl UG Hs#S4619158	1.18	2	737-762(1.18) 872-898(0.27)
gnl UG Hs#S4815108	1.5	1	253-279(1.50)
gnl UG Hs#S7112019	0.5	1	916-941(0.50)
gnl UG Hs#S3973137	0.09	2	257-280(0.08) 309-333(0.09)
gnl UG Hs#S4045153	3.3	4	26-52(3.30) 341-369(0.26) 586-612(0.33) 1006-1031(2.91)
gnl UG Hs#S3219949	1.03	3	278-306(0.27) 682-710(1.03) 1425-1450(0.17)

gnl UG Hs#S4815300	6.95	3 86-113(0.14) 1261-1289(0.13) 1658-1683(6.95)
gnl UG Hs#S6158564	2.21	3 1038-1064(2.21) 1303-1329(0.27) 1771-1796(1.63)
gnl UG Hs#S3219170	0.72	1 54-79(0.72)
gnl UG Hs#S7110351	1.43	1 1313-1340(1.43)
gnl UG Hs#S15638352	2.04	1 618-644(2.04)
gnl UG Hs#S15639256	0.94	1 593-618(0.94)
gnl UG Hs#S3547240	0.75	1 2415-2443(0.75)
gnl UG Hs#S7110766	5.66	3 606-631(0.13) 1140-1168(0.88) 1182-1207(5.66)
gnl UG Hs#S3438846	0.14	1 438-466(0.14)
gnl UG Hs#S10832201	2.04	3 75-101(2.04) 251-276(1.13) 1531-1556(1.40)
gnl UG Hs#S1969110	6.3	3 583-611(1.75) 738-764(6.30) 2385-2410(1.47)
gnl UG Hs#S2294283	4.63	6 490-516(1.89) 923-949(0.10) 1190-1216(0.32) 1305-1332(4.63) 1696-1721(1.53) 2308-2333(0.14)
gnl UG Hs#S4817011	4.13	1 1349-1377(4.13)
gnl UG Hs#S1731381	0.43	1 265-290(0.43)
gnl UG Hs#S15730142	3.53	2 1105-1130(3.53) 1826-1853(3.51)
gnl UG Hs#S4553555	5.26	2 125-150(0.72) 544-569(5.26)
gnl UG Hs#S3438844	1.5	1 660-685(1.50)
gnl UG Hs#S1732107	0.74	2 37-62(0.74) 87-113(0.23)
gnl UG Hs#S14812324	6.47	5 54-79(6.47) 231-256(0.69) 399-424(0.20) 754-782(1.03) 1192-1218(0.56)
gnl UG Hs#S3603062	1.44	1 1795-1821(1.44)
gnl UG Hs#S1726474	0.67	1 65-91(0.67)
gnl UG Hs#S1729255	1.83	5 403-428(0.30) 459-485(0.25) 508-533(1.83) 818-843(1.04) 848-871(0.25)
gnl UG Hs#S2294350	2.79	4 325-351(2.79) 808-833(0.74) 987-1011(1.36) 1037-1065(2.66)
gnl UG Hs#S1731651	4.24	6 1714-1739(3.30) 1799-1825(2.75) 2985-3010(0.37) 3648-3673(1.45) 3706-3731(4.24) 3796-3821(0.97)
gnl UG Hs#S4807891	4.07	1 1225-1250(4.07)
gnl UG Hs#S2139579	1.81	3 307-332(0.26) 351-376(1.48) 575-603(1.81)
gnl UG Hs#S3618871	0.4	1 1002-1027(0.40)
gnl UG Hs#S4553482	1.12	2 1028-1053(0.07) 1761-1787(1.12)
gnl UG Hs#S1732213	0.9	1 103-131(0.90)
gnl UG Hs#S2139415	3.94	6 196-221(0.63) 561-586(3.94) 735-760(0.94) 861-886(1.25) 1196-1224(1.13) 1537-1563(2.01)
gnl UG Hs#S6159132	1.2	1 2313-2339(1.20)
gnl UG Hs#S3803680	2.89	4 591-616(2.89) 1097-1123(1.04) 1286-1309(1.17) 1323-1348(0.19)
gnl UG Hs#S11046709	2.08	2 458-483(2.08) 499-523(0.66)
gnl UG Hs#S10832470	1.08	3 563-588(1.08) 621-649(0.20) 1187-1214(0.26)
gnl UG Hs#S5930953	0.57	1 469-495(0.57)
gnl UG Hs#S2293576	0.46	2 1151-1176(0.40) 1255-1281(0.46)
gnl UG Hs#S4813878	2.34	2 443-468(0.24) 3296-3321(2.34)
gnl UG Hs#S1732135	1.71	1 791-819(1.71)
gnl UG Hs#S2139968	0.04	1 174-199(0.04)
gnl UG Hs#S3219814	2.36	2 594-619(0.27) 1182-1207(2.36)
gnl UG Hs#S3355463	3.04	3 108-133(3.04) 364-389(0.68) 721-746(2.30)
gnl UG Hs#S1729100	1.27	2 174-200(0.33) 336-362(1.27)
gnl UG Hs#S14812336	4.49	1 62-88(4.49)
gnl UG Hs#S3219279	0.3	1 252-275(0.30)
gnl UG Hs#S1727509	0.71	1 57-85(0.71)
gnl UG Hs#S3603139	0.33	1 217-243(0.33)
gnl UG Hs#S1731059	2.27	5 538-564(0.43) 970-998(1.03) 1083-1107(0.15) 1478-1506(1.77) 1528-1553(2.27)
gnl UG Hs#S5978616	1.14	1 1428-1453(1.14)
gnl UG Hs#S3219571	0.27	1 106-132(0.27)
gnl UG Hs#S2138822	0.58	4 837-865(0.26) 1733-1762(0.39) 1933-1958(0.58) 2018-2046(0.30)
gnl UG Hs#S2138908	1.3	1 183-209(1.30)
gnl UG Hs#S4807976	0.82	2 517-541(0.07) 910-935(0.82)
gnl UG Hs#S4435662	4.3	3 183-211(4.30) 756-784(0.91) 1597-1622(1.23)
gnl UG Hs#S3814574	2.76	5 107-130(0.45) 519-544(2.53) 662-688(2.76) 1270-1298(0.40) 1617-1643(1.66)

gnl UG Hs#S4620635	0.82	2 544-569(0.82) 1573-1598(0.47)
gnl UG Hs#S1731114	2.57	2 94-119(1.50) 596-621(2.57)
gnl UG Hs#S1727459	2.08	1 596-621(2.08)
gnl UG Hs#S3547238	0.82	1 368-393(0.82)
gnl UG Hs#S3355521	0.91	1 37-63(0.91)
gnl UG Hs#S1726367	1.26	1 1615-1644(1.26)
gnl UG Hs#S1569312	1.68	1 1624-1649(1.68)
gnl UG Hs#S3218911	1.3	2 1525-1551(1.30) 1635-1663(0.72)
gnl UG Hs#S1969181	3.07	1 1730-1757(3.07)
gnl UG Hs#S15644795	3.4	5 648-676(3.40) 781-806(0.85) 1150-1178(0.16) 1403-1428(0.04) 1499-1524(1.30)
gnl UG Hs#S1728066	0.43	2 155-180(0.43) 1149-1176(0.14)
gnl UG Hs#S1729328	0.33	1 442-467(0.33)
gnl UG Hs#S1727135	0.72	1 744-769(0.72)
gnl UG Hs#S3219587	3.09	8 86-110(0.04) 524-552(0.04) 846-871(0.17) 1015-1040(1.18) 2400-2426(3.09) 2840-2866(1.50) 3069-3094(1.65) 3099-3125(0.54)
gnl UG Hs#S2654903	1.84	1 844-869(1.84)
gnl UG Hs#S15631481	1.34	1 483-509(1.34)
gnl UG Hs#S1727906	2.32	2 1036-1061(2.32) 1635-1663(1.14)
gnl UG Hs#S10832494	0.34	2 80-107(0.34) 483-508(0.30)
gnl UG Hs#S2140651	1.17	1 296-321(1.17)
gnl UG Hs#S2140356	2.76	1 680-706(2.76)
gnl UG Hs#S1729948	5.84	4 150-175(1.14) 487-512(5.84) 912-937(2.23) 1815-1840(1.43)
gnl UG Hs#S4614536	0.03	1 2019-2044(0.03)
gnl UG Hs#S1729604	3.56	3 7-33(0.91) 36-61(0.84) 469-495(3.56)
gnl UG Hs#S2140158	1.11	2 36-64(0.94) 174-199(1.11)
gnl UG Hs#S4285324	1.66	1 510-536(1.66)
gnl UG Hs#S2140172	0.77	2 329-357(0.07) 869-895(0.77)
gnl UG Hs#S2139760	3.52	1 613-636(3.52)
gnl UG Hs#S1727830	1.23	2 1085-1113(0.08) 2086-2114(1.23)
gnl UG Hs#S4546121	3.56	2 108-134(2.08) 588-613(3.56)
gnl UG Hs#S2140521	3.31	6 580-605(1.30) 638-663(2.26) 1348-1373(1.07) 1404-1429(1.75) 1455-1480(0.46) 1784-1809(3.31)
gnl UG Hs#S15639692	0.14	1 176-201(0.14)
gnl UG Hs#S1727903	0.38	1 76-101(0.38)
gnl UG Hs#S3438565	2.3	3 79-109(0.09) 114-139(0.97) 603-629(2.30)
gnl UG Hs#S3218898	1.87	3 427-453(1.11) 693-718(1.87) 758-786(0.30)
gnl UG Hs#S4841552	3.56	1 928-952(3.56)
gnl UG Hs#S1732285	1.3	1 760-786(1.30)
gnl UG Hs#S4825556	3.17	4 176-201(0.40) 945-972(2.39) 1401-1427(0.82) 1456-1484(3.17)
gnl UG Hs#S2294551	2.62	4 15-40(0.75) 134-159(2.62) 627-655(2.47) 952-978(1.97)
gnl UG Hs#S4807965	0.49	2 38-63(0.30) 93-121(0.49)
gnl UG Hs#S1971798	0.84	1 287-312(0.84)
gnl UG Hs#S7110147	4.35	15 91-116(1.21) 335-363(0.59) 448-473(4.35) 937-962(1.02) 1040-1066(2.62) 1207-1231(0.08) 1299-1325(2.04) 1915-1940(0.30) 2166-2190(0.17) 2264-2290(0.13) 2548-2573(1.62) 3038-3066(2.88) 3:
gnl UG Hs#S3355488	2.94	4 257-285(0.72) 683-708(0.58) 1440-1465(2.36) 2022-2047(2.94)
gnl UG Hs#S2140053	0.01	1 55-80(0.01)
gnl UG Hs#S14863764	3	7 440-465(2.40) 966-992(0.53) 2238-2266(1.79) 2337-2364(1.02) 2609-2633(0.53) 2658-2684(3.00) 2859-2885(2.53)
gnl UG Hs#S2293235	3.04	2 207-232(3.04) 442-470(1.59)
gnl UG Hs#S2139572	3.09	3 1908-1933(0.11) 1955-1980(0.49) 2157-2182(3.09)
gnl UG Hs#S2139591	0.86	2 646-672(0.20) 1204-1230(0.86)
gnl UG Hs#S4822935	3.78	1 222-247(3.78)
gnl UG Hs#S5860306	3.45	5 285-313(2.40) 390-414(1.03) 499-524(3.45) 586-611(0.68) 758-783(2.13)
gnl UG Hs#S1728306	3.58	2 33-57(3.58) 159-184(0.57)
gnl UG Hs#S2138788	2.44	3 806-831(0.04) 1049-1075(2.44) 1197-1222(1.13)
gnl UG Hs#S4392165	1.72	5 260-285(1.72) 292-320(0.01) 607-632(0.33) 723-751(1.52) 1113-1138(1.47)
gnl UG Hs#S2140042	0.72	2 443-468(0.72) 790-818(0.49)
gnl UG Hs#S1263869	1.74	2 527-553(0.24) 1406-1429(1.74)

gnl UG Hs#S1732348	2.34	7 119-144(1.82) 406-431(0.17) 527-552(1.46) 757-784(2.34) 965-993(0.27) 1022-1045(0.96) 1087-1116(0.16)
gnl UG Hs#S4807651	1.62	1 115-139(1.62)
gnl UG Hs#S1731655	2.77	6 251-277(1.50) 605-631(0.04) 868-896(1.08) 1444-1471(0.43) 2034-2058(1.94) 2456-2480(2.77)
gnl UG Hs#S7112182	4.43	1 1172-1197(4.43)
gnl UG Hs#S1732283	1.71	1 748-776(1.71)
gnl UG Hs#S1728924	2.39	1 57-82(2.39)
gnl UG Hs#S1728768	1.3	1 2662-2690(1.30)
gnl UG Hs#S3219516	1.84	2 1606-1632(1.84) 1641-1666(0.43)
gnl UG Hs#S11046589	3.11	5 509-534(2.57) 895-920(3.11) 1034-1062(1.40) 1131-1156(0.55) 1207-1233(0.04)
gnl UG Hs#S1728876	1.22	2 711-736(1.22) 1884-1909(0.04)
gnl UG Hs#S4818908	0.72	1 1013-1038(0.72)
gnl UG Hs#S1727046	2.23	2 1619-1644(2.23) 1803-1829(0.56)
gnl UG Hs#S1731205	0.72	1 111-136(0.72)
gnl UG Hs#S1732290	0.88	1 142-165(0.88)
gnl UG Hs#S2139009	1.91	2 97-122(1.91) 555-579(0.01)
gnl UG Hs#S1824441	0.13	1 569-594(0.13)
gnl UG Hs#S1728088	1.9	2 328-356(1.90) 471-496(1.36)
gnl UG Hs#S1729079	1.08	1 335-361(1.08)
gnl UG Hs#S4284903	0.13	1 1428-1453(0.13)
gnl UG Hs#S4807847	2.88	3 202-227(0.40) 303-331(1.08) 468-496(2.88)
gnl UG Hs#S1730137	5.07	3 617-645(0.23) 748-776(5.07) 1236-1261(0.98)
gnl UG Hs#S3219345	0.77	1 115-140(0.77)
gnl UG Hs#S4807619	0.04	1 345-370(0.04)
gnl UG Hs#S4283751	1.04	3 79-105(0.28) 298-324(1.04) 805-830(0.26)
gnl UG Hs#S3219837	1.72	3 158-183(0.30) 302-328(1.72) 750-775(0.08)
gnl UG Hs#S1730923	5.39	9 212-238(2.69) 834-860(0.04) 1012-1037(3.87) 1056-1084(5.39) 1645-1670(2.96) 2050-2076(1.43) 2185-2210(2.07) 3740-3765(1.30) 4120-4145(1.30)
gnl UG Hs#S1729885	0.23	1 129-157(0.23)
gnl UG Hs#S4284538	7.46	3 1012-1040(2.75) 1067-1092(5.11) 1198-1223(7.46)
gnl UG Hs#S2655102	1.15	1 3336-3362(1.15)
gnl UG Hs#S1728639	0.53	1 47-72(0.53)
gnl UG Hs#S4829242	0.26	1 404-431(0.26)
gnl UG Hs#S2293388	4.4	3 282-307(1.07) 746-772(0.89) 1433-1459(4.40)
gnl UG Hs#S4841598	2.53	1 180-205(2.53)
gnl UG Hs#S1728677	0.3	1 19-46(0.30)
gnl UG Hs#S3219549	1.3	1 1070-1095(1.30)
gnl UG Hs#S5930899	1.63	1 1133-1158(1.63)
gnl UG Hs#S4392403	0.63	1 521-546(0.63)
gnl UG Hs#S1731042	1.08	2 1098-1123(0.72) 1660-1685(1.08)
gnl UG Hs#S4284293	1.42	1 704-732(1.42)
gnl UG Hs#S1728840	1.65	1 93-118(1.65)
gnl UG Hs#S4045921	1.33	1 659-684(1.33)
gnl UG Hs#S6686674	0.88	1 352-380(0.88)
gnl UG Hs#S1726837	2.67	1 912-937(2.67)
gnl UG Hs#S3602285	2.04	2 943-968(2.04) 2076-2101(0.33)
gnl UG Hs#S1726278	3.67	1 195-220(3.67)
gnl UG Hs#S2139911	6.39	2 112-137(0.82) 240-265(6.39)
gnl UG Hs#S4822855	1.62	4 290-318(1.02) 322-349(1.24) 350-378(1.62) 611-636(0.17)
gnl UG Hs#S2294203	6.18	1 1899-1925(6.18)
gnl UG Hs#S1731264	2.58	4 93-118(0.26) 430-455(0.48) 585-610(1.43) 692-717(2.58)
gnl UG Hs#S6163382	0.94	1 879-904(0.94)
gnl UG Hs#S1727988	0.11	1 1161-1187(0.11)
gnl UG Hs#S2139660	1.1	4 157-185(0.23) 490-517(0.16) 676-703(0.29) 936-962(1.10)
gnl UG Hs#S10832420	4.07	3 359-387(4.07) 960-985(0.08) 1605-1630(0.57)
gnl UG Hs#S2139886	1.58	2 762-787(0.94) 3177-3203(1.58)

gnl UG Hs#S11046569	4.75	3	388-415(1.03) 829-854(4.75) 1739-1766(0.37)
gnl UG Hs#S5978659	0.94	1	144-169(0.94)
gnl UG Hs#S15642148	1.5	1	922-947(1.50)
gnl UG Hs#S1730842	2.08	1	1860-1886(2.08)
gnl UG Hs#S3438794	1.46	1	823-848(1.46)
gnl UG Hs#S4284722	0.3	2	1168-1191(0.07) 2007-2032(0.30)
gnl UG Hs#S2293756	1.58	2	886-911(0.48) 1084-1110(1.58)
gnl UG Hs#S1728466	1.14	1	287-312(1.14)
gnl UG Hs#S1726271	1.3	1	131-156(1.30)
gnl UG Hs#S1727633	0.14	1	133-158(0.14)
gnl UG Hs#S3601741	5.63	3	775-800(1.40) 1105-1131(5.63) 1168-1193(3.30)
gnl UG Hs#S2293851	2.62	1	598-623(2.62)
gnl UG Hs#S1726225	2.13	3	153-178(1.28) 198-223(2.13) 856-882(0.17)
gnl UG Hs#S1726992	1.4	2	104-129(1.40) 211-236(0.78)
gnl UG Hs#S3619175	3.67	3	934-961(0.31) 1127-1153(0.85) 1438-1462(3.67)
gnl UG Hs#S3603085	1.04	1	566-591(1.04)
gnl UG Hs#S3220044	1.72	2	149-174(1.72) 193-218(1.13)
gnl UG Hs#S1824414	1.3	2	100-125(1.30) 941-966(0.01)
gnl UG Hs#S1726614	0.98	4	407-432(0.30) 696-721(0.98) 1186-1212(0.33) 1470-1495(0.71)
gnl UG Hs#S4807580	0.57	1	735-761(0.57)
gnl UG Hs#S4815009	4.67	15	271-296(2.56) 379-407(3.30) 847-873(2.82) 915-947(0.43) 1138-1162(1.07) 1848-1871(1.07) 1978-2003(4.67) 2014-2039(2.50) 2078-2105(2.43) 3167-3195(1.81) 3295-3320(2.05) 3350-3375(1.89) :
gnl UG Hs#S4283977	0.2	1	226-253(0.20)
gnl UG Hs#S3972972	2.78	4	590-615(1.30) 1002-1028(1.56) 2026-2051(2.78) 2419-2444(0.76)
gnl UG Hs#S1727331	5.04	5	103-129(1.24) 158-183(5.04) 281-307(1.18) 405-430(0.04) 692-717(0.24)
gnl UG Hs#S5931222	0.39	1	994-1019(0.39)
gnl UG Hs#S3601761	0.81	2	638-666(0.81) 1194-1220(0.72)
gnl UG Hs#S7111382	1.21	2	135-161(0.52) 732-757(1.21)
gnl UG Hs#S5931242	2.39	2	1454-1479(2.39) 2240-2266(1.08)
gnl UG Hs#S2140455	1.43	1	89-114(1.43)
gnl UG Hs#S4818526	1.11	1	143-169(1.11)
gnl UG Hs#S4285293	4.14	4	691-716(4.14) 760-788(0.32) 2247-2274(1.59) 2990-3015(0.29)
gnl UG Hs#S2293183	5.82	2	793-819(5.82) 964-991(1.94)
gnl UG Hs#S2294208	6.18	1	1899-1925(6.18)
gnl UG Hs#S4841650	1.94	1	229-254(1.94)
gnl UG Hs#S4819134	3.77	10	205-230(0.48) 2125-2152(0.04) 2161-2186(2.39) 2322-2346(0.40) 2512-2538(1.25) 2572-2597(3.08) 2737-2763(0.17) 3169-3194(2.46) 3315-3341(3.77) 3361-3388(1.88)
gnl UG Hs#S1728333	3.01	3	361-386(0.94) 613-638(3.01) 660-685(1.97)
gnl UG Hs#S1730433	0.75	3	529-554(0.39) 1557-1583(0.75) 1661-1689(0.01)
gnl UG Hs#S10832216	0.94	2	333-358(0.94) 1775-1800(0.52)
gnl UG Hs#S3601472	0.86	1	1-27(0.86)
gnl UG Hs#S1727153	0.27	1	699-724(0.27)
gnl UG Hs#S3437906	1.53	2	85-110(1.26) 311-336(1.53)
gnl UG Hs#S3219069	1.88	1	877-903(1.88)
gnl UG Hs#S1727394	1.11	1	137-162(1.11)
gnl UG Hs#S3438973	0.26	2	784-810(0.26) 918-946(0.20)
gnl UG Hs#S3355532	1.62	1	171-197(1.62)
gnl UG Hs#S4807774	1.26	2	79-105(1.26) 178-204(0.76)
gnl UG Hs#S1727026	1.04	1	1322-1347(1.04)
gnl UG Hs#S1824561	3.82	5	46-72(0.13) 948-973(3.82) 1459-1484(1.65) 1862-1887(0.47) 2537-2562(1.98)
gnl UG Hs#S2139526	9.02	2	988-1014(9.02) 2092-2118(0.86)
gnl UG Hs#S2293997	2.17	1	647-672(2.17)
gnl UG Hs#S1731779	4.47	3	134-162(4.47) 770-798(2.04) 972-1001(0.03)
gnl UG Hs#S3438967	3.14	4	229-255(3.14) 661-686(0.40) 1123-1148(1.98) 1723-1748(0.50)
gnl UG Hs#S2294638	0.72	2	344-369(0.72) 450-474(0.07)
gnl UG Hs#S5931259	1.17	1	269-294(1.17)

gnl UG Hs#S1728815	4.33	3	59-84(0.03) 510-534(0.80) 888-914(4.33)
gnl UG Hs#S2139083	0.46	1	512-537(0.46)
gnl UG Hs#S4812258	1.46	1	144-169(1.46)
gnl UG Hs#S1732028	2.4	1	1616-1642(2.40)
gnl UG Hs#S4285066	0.57	1	470-495(0.57)
gnl UG Hs#S2294017	1.82	4	65-91(0.40) 99-124(0.94) 795-820(1.82) 1784-1808(0.16)
gnl UG Hs#S4619041	0.76	2	1265-1291(0.18) 1298-1326(0.76)
gnl UG Hs#S1727016	1.44	1	137-162(1.44)
gnl UG Hs#S3219621	1.78	1	29-54(1.78)
gnl UG Hs#S1728584	0.72	1	1093-1118(0.72)
gnl UG Hs#S4822793	1.04	5	553-578(0.49) 819-844(0.57) 1366-1390(0.15) 2099-2124(1.04) 2568-2596(0.08)
gnl UG Hs#S1730344	1.46	1	1064-1089(1.46)
gnl UG Hs#S3219057	1.17	1	353-381(1.17)
gnl UG Hs#S3837783	0.33	1	299-324(0.33)
gnl UG Hs#S1730950	2.86	6	229-254(1.34) 349-374(0.33) 390-416(2.86) 1000-1025(1.23) 2064-2090(1.55) 2118-2144(0.57)
gnl UG Hs#S3603841	2.37	7	1128-1153(0.84) 1473-1498(0.36) 1587-1614(0.30) 2317-2343(1.47) 2689-2716(2.37) 2860-2883(0.37) 3019-3047(0.59)
gnl UG Hs#S11046542	3.44	2	165-190(3.44) 1687-1713(0.86)
gnl UG Hs#S3973026	2.08	2	424-449(2.08) 810-839(1.15)
gnl UG Hs#S2139450	4.48	8	23-48(3.11) 193-219(2.97) 436-464(1.17) 523-549(0.72) 753-778(0.82) 909-937(4.48) 1104-1129(0.76) 1202-1230(1.83)
gnl UG Hs#S1727033	3.3	3	132-157(3.30) 329-356(2.02) 791-816(1.30)
gnl UG Hs#S2294412	1.55	3	75-101(1.40) 1052-1077(0.21) 2200-2227(1.55)
gnl UG Hs#S4810981	6.14	2	1090-1116(6.14) 1474-1502(3.23)
gnl UG Hs#S1730893	0.1	2	491-516(0.07) 690-718(0.10)
gnl UG Hs#S3219624	1.21	1	592-617(1.21)
gnl UG Hs#S3439111	4.97	7	335-360(1.07) 378-403(0.18) 892-917(4.97) 1532-1557(3.23) 2207-2234(0.34) 2727-2754(2.01) 2837-2862(1.13)
gnl UG Hs#S4554605	3.89	1	111-137(3.89)
gnl UG Hs#S1730217	4.04	4	18-45(1.09) 850-875(1.00) 931-958(4.04) 1818-1843(2.56)
gnl UG Hs#S3355636	1.94	1	109-136(1.94)
gnl UG Hs#S4283227	1.15	1	57-82(1.15)
gnl UG Hs#S4614401	2.65	1	2452-2477(2.65)
gnl UG Hs#S1726823	1.47	1	496-524(1.47)
gnl UG Hs#S1730435	3.23	3	48-74(1.08) 89-114(3.23) 151-176(2.23)
gnl UG Hs#S4546309	0.82	1	3303-3329(0.82)
gnl UG Hs#S7112413	0.18	1	213-238(0.18)
gnl UG Hs#S4001906	1.34	2	94-120(1.34) 456-481(0.07)
gnl UG Hs#S1729833	4.76	4	517-543(1.30) 756-784(1.98) 820-845(0.20) 1024-1052(4.76)
gnl UG Hs#S2139459	0.04	2	1469-1492(0.04) 4058-4084(0.04)
gnl UG Hs#S15636105	0.69	1	444-469(0.69)
gnl UG Hs#S2139877	0.91	2	18-44(0.91) 100-128(0.89)
gnl UG Hs#S14802444	1.87	1	1119-1144(1.87)
gnl UG Hs#S2293511	4.3	4	687-715(1.64) 1154-1179(0.65) 1377-1403(1.90) 1585-1610(4.30)
gnl UG Hs#S2139743	2.88	2	98-126(2.88) 384-409(0.15)
gnl UG Hs#S2139146	0.62	1	844-870(0.62)
gnl UG Hs#S4554435	2.46	1	1490-1517(2.46)
gnl UG Hs#S1727417	1.14	1	1116-1144(1.14)
gnl UG Hs#S4828754	4.75	5	25-50(1.07) 69-94(4.75) 115-140(0.72) 240-265(3.00) 273-299(0.09)
gnl UG Hs#S5978806	2.04	2	209-234(1.72) 242-267(2.04)
gnl UG Hs#S5979273	1.23	1	47-73(1.23)
gnl UG Hs#S1729951	2.04	2	275-301(2.04) 525-553(0.20)
gnl UG Hs#S7111054	1.62	3	289-316(0.29) 356-379(1.62) 1144-1171(0.23)
gnl UG Hs#S4807566	0.87	1	160-185(0.87)
gnl UG Hs#S5860365	1.62	1	792-818(1.62)
gnl UG Hs#S6693104	1.54	1	61-88(1.54)
gnl UG Hs#S1728471	1.3	3	57-83(0.17) 101-126(0.53) 184-210(1.30)

gnl UG Hs#S3218904	3.37	1 44-70(3.37)
gnl UG Hs#S1726508	0.94	2 23-48(0.58) 84-109(0.94)
gnl UG Hs#S2294261	6.73	5 129-155(6.73) 764-789(0.46) 939-964(0.82) 1031-1056(0.98) 1118-1146(0.62)
gnl UG Hs#S1728932	2.46	3 1093-1118(2.46) 1410-1435(1.40) 1875-1901(1.60)
gnl UG Hs#S4807971	2.23	3 100-125(2.23) 149-175(1.49) 1149-1174(1.50)
gnl UG Hs#S7113237	1	1 841-865(1.00)
gnl UG Hs#S1727884	0.04	1 204-229(0.04)
gnl UG Hs#S3973105	1	1 395-419(1.00)
gnl UG Hs#S4553484	1.62	5 538-566(1.62) 596-622(0.12) 1038-1066(0.01) 1244-1271(0.79) 1283-1307(0.61)
gnl UG Hs#S3814591	2.62	1 66-91(2.62)
gnl UG Hs#S1731935	1.04	2 1152-1180(0.04) 2934-2959(1.04)
gnl UG Hs#S4435926	1.98	7 363-388(1.98) 392-416(0.57) 565-593(0.49) 735-761(0.65) 1021-1046(0.35) 1470-1498(1.30) 1611-1637(1.20)
gnl UG Hs#S4807549	1.72	5 141-171(0.20) 242-267(0.15) 379-404(1.72) 551-577(1.24) 855-881(1.08)
gnl UG Hs#S1971527	1.43	4 2044-2069(0.98) 2190-2215(0.20) 2308-2335(0.62) 2351-2376(1.43)
gnl UG Hs#S2139558	2.4	4 575-600(2.40) 1063-1088(1.81) 1282-1307(0.63) 1322-1348(1.62)
gnl UG Hs#S1726653	0.5	2 1837-1862(0.17) 1947-1973(0.50)
gnl UG Hs#S4807518	1.4	2 739-762(1.40) 1202-1227(0.26)
gnl UG Hs#S2293970	3.17	1 77-103(3.17)
gnl UG Hs#S1731388	4.56	2 1435-1460(4.56) 1568-1594(1.27)
gnl UG Hs#S1727851	1.97	2 343-369(1.94) 404-429(1.97)
gnl UG Hs#S1726664	0.98	1 120-145(0.98)
gnl UG Hs#S2139950	2.21	3 456-481(0.53) 500-525(0.81) 985-1013(2.21)
gnl UG Hs#S4807230	1.72	4 833-858(0.56) 874-899(0.72) 942-968(1.72) 1089-1112(1.59)
gnl UG Hs#S1728942	1.84	2 694-720(1.84) 772-795(1.79)
gnl UG Hs#S2138800	3.08	5 950-975(3.08) 1693-1721(0.11) 2262-2286(1.85) 2657-2682(3.04) 3478-3503(2.98)
gnl UG Hs#S3219319	1.65	4 988-1016(0.26) 1230-1255(0.72) 1287-1312(1.65) 1328-1357(0.01)
gnl UG Hs#S3438748	0.23	1 658-684(0.23)
gnl UG Hs#S2140220	0.1	1 184-208(0.10)
gnl UG Hs#S2293310	1.5	1 158-183(1.50)
gnl UG Hs#S1729743	0.55	1 186-211(0.55)
gnl UG Hs#S11154069	3.27	4 201-225(0.72) 552-578(3.27) 1056-1081(2.52) 1194-1221(0.00)
gnl UG Hs#S3438372	2.06	1 425-451(2.06)
gnl UG Hs#S4821487	1.05	1 478-505(1.05)
gnl UG Hs#S5931236	0.26	1 418-443(0.26)
gnl UG Hs#S5978404	2.33	1 385-410(2.33)
gnl UG Hs#S3355567	1.07	1 1092-1117(1.07)
gnl UG Hs#S10832048	0.62	1 391-418(0.62)
gnl UG Hs#S4809864	2.07	6 670-695(1.94) 787-812(2.07) 930-953(0.97) 1857-1882(1.30) 2084-2109(0.24) 3048-3073(1.78)
gnl UG Hs#S1728940	1.88	2 567-592(1.78) 774-799(1.88)
gnl UG Hs#S2139475	3.34	1 580-605(3.34)
gnl UG Hs#S4554602	1.43	1 619-645(1.43)
gnl UG Hs#S4807941	0.3	1 90-121(0.30)
gnl UG Hs#S4623518	2.17	2 3134-3159(2.17) 3186-3211(1.53)
gnl UG Hs#S2140612	0.79	2 167-192(0.79) 359-385(0.55)
gnl UG Hs#S2139818	1.21	2 729-753(1.21) 788-813(0.24)
gnl UG Hs#S3438659	0.57	1 728-756(0.57)
gnl UG Hs#S3603040	1.65	6 174-200(1.65) 147-171(0.09) 204-232(0.40) 286-311(0.33) 1183-1208(1.34) 1910-1935(0.89)
gnl UG Hs#S1728904	1.84	2 1209-1237(1.84) 1344-1369(0.87)
gnl UG Hs#S1730063	2.48	2 489-515(2.48) 530-556(1.18)
gnl UG Hs#S3438696	5.15	3 774-800(2.72) 860-885(5.15) 901-926(2.17)
gnl UG Hs#S1731891	0.48	1 1415-1440(0.48)
gnl UG Hs#S3438834	2.48	2 119-146(0.76) 305-333(2.48)
gnl UG Hs#S4841562	4.97	6 229-254(4.97) 277-302(0.30) 757-783(0.10) 798-823(0.40) 874-899(3.21) 918-943(0.75)
gnl UG Hs#S2140320	3.81	5 309-335(3.66) 866-891(0.62) 1073-1101(1.30) 1287-1312(1.50) 1375-1403(3.81)

gnl UG Hs#S2140689	0.43	1 647-672(0.43)
gnl UG Hs#S2294392	1.04	3 168-193(1.04) 1781-1807(0.47) 1833-1859(0.39)
gnl UG Hs#S1726585	2.68	5 127-152(2.68) 380-406(1.17) 563-589(0.04) 603-629(1.50) 1211-1236(2.46)
gnl UG Hs#S2293602	3.89	1 285-310(3.89)
gnl UG Hs#S2293172	1.29	1 127-152(1.29)
gnl UG Hs#S3601636	3.67	1 20-46(3.67)
gnl UG Hs#S1732385	0.29	1 540-565(0.29)
gnl UG Hs#S1729638	3.72	2 316-342(0.41) 1400-1427(3.72)
gnl UG Hs#S3333477	3.78	1 1717-1742(3.78)
gnl UG Hs#S2139841	2.4	5 355-381(0.08) 655-680(0.17) 797-822(0.30) 894-919(0.17) 1054-1079(2.40)
gnl UG Hs#S1727484	0.66	4 442-469(0.66) 840-865(0.57) 1214-1242(0.62) 1252-1278(0.11)
gnl UG Hs#S2293415	3.3	2 639-665(3.30) 2151-2181(0.34)
gnl UG Hs#S10832742	2.48	4 413-438(0.58) 565-592(2.48) 1020-1045(1.82) 2173-2199(0.72)
gnl UG Hs#S3438951	2.3	6 539-564(1.34) 852-878(0.11) 1046-1072(0.76) 1139-1164(2.30) 1186-1212(0.21) 1213-1239(0.27)
gnl UG Hs#S1824306	1.55	1 55-83(1.55)
gnl UG Hs#S1731910	0.2	1 101-128(0.20)
gnl UG Hs#S4818038	2.11	4 278-303(0.83) 1552-1577(2.11) 1693-1718(0.33) 1930-1955(0.50)
gnl UG Hs#S4809644	1.72	5 471-496(0.13) 527-552(0.01) 661-686(0.87) 840-866(1.72) 1044-1068(0.89)
gnl UG Hs#S1727227	2.08	1 283-308(2.08)
gnl UG Hs#S1728325	1.98	3 477-503(1.27) 521-549(1.57) 655-680(1.98)
gnl UG Hs#S4618671	1.07	1 1081-1106(1.07)
gnl UG Hs#S1729791	2.2	1 497-523(2.20)
gnl UG Hs#S2294187	0.01	1 1633-1661(0.01)
gnl UG Hs#S15631547	2.3	3 22-47(0.16) 327-353(2.30) 584-608(0.14)
gnl UG Hs#S3219746	2.94	2 1723-1749(0.39) 2381-2406(2.94)
gnl UG Hs#S4826390	4.59	3 186-211(0.08) 314-340(1.01) 679-707(4.59)
gnl UG Hs#S1730579	0.67	1 378-404(0.67)
gnl UG Hs#S2139682	2.79	6 406-431(2.79) 635-660(0.14) 1627-1652(2.67) 1959-1986(0.58) 2299-2325(2.72) 2512-2537(1.14)
gnl UG Hs#S3220077	2.73	4 64-91(1.28) 274-302(1.90) 379-404(0.91) 838-867(2.73)
gnl UG Hs#S3973111	0.18	1 719-747(0.18)
gnl UG Hs#S2294217	2.36	2 83-111(2.36) 163-189(1.17)
gnl UG Hs#S2293403	0.3	1 1234-1257(0.30)
gnl UG Hs#S1730767	2.58	1 229-254(2.58)
gnl UG Hs#S1731122	1.33	1 458-483(1.33)
gnl UG Hs#S14802393	0.46	1 1092-1117(0.46)
gnl UG Hs#S2140373	2.52	1 216-241(2.52)
gnl UG Hs#S2294379	5.98	2 1250-1276(0.34) 1403-1428(5.98)
gnl UG Hs#S4546007	2.26	4 23-48(2.26) 209-234(1.78) 549-574(1.98) 1040-1065(0.10)
gnl UG Hs#S1824470	1.93	1 340-366(1.93)
gnl UG Hs#S4554624	1.17	4 703-729(0.23) 736-761(0.30) 1326-1352(1.17) 1393-1420(0.67)
gnl UG Hs#S1731607	4.27	3 181-206(0.58) 343-368(0.46) 475-503(4.27)
gnl UG Hs#S5978544	3.36	4 945-970(0.26) 1070-1096(3.36) 1116-1141(1.94) 1227-1252(3.11)
gnl UG Hs#S7110440	4.08	3 134-160(1.30) 894-920(4.08) 1268-1295(0.30)
gnl UG Hs#S4284738	1.27	4 1018-1043(0.36) 1253-1279(1.27) 1427-1452(1.23) 1849-1875(0.28)
gnl UG Hs#S1727317	0.52	1 339-366(0.52)
gnl UG Hs#S15632430	1.15	3 770-798(0.01) 883-908(1.15) 1124-1150(0.30)
gnl UG Hs#S3219382	0.3	1 160-185(0.30)
gnl UG Hs#S4631450	4.72	6 319-344(0.34) 1123-1148(3.36) 1292-1317(1.57) 1810-1836(0.77) 2820-2845(1.03) 3101-3126(4.72)
gnl UG Hs#S2140582	1.41	2 74-101(0.43) 633-659(1.41)
gnl UG Hs#S2293210	0.68	3 78-104(0.68) 280-305(0.07) 369-395(0.21)
gnl UG Hs#S3219521	0.94	2 692-718(0.94) 1110-1135(0.26)
gnl UG Hs#S4546234	1.02	2 46-72(1.02) 170-196(0.33)
gnl UG Hs#S1728707	2.5	1 726-751(2.50)
gnl UG Hs#S1731505	3.36	3 72-97(2.08) 169-194(1.20) 1602-1630(3.36)

gnl UG Hs#S1727244	0.22	1 22-48(0.22)
gnl UG Hs#S1730668	1.54	1 677-703(1.54)
gnl UG Hs#S4545952	2.47	2 140-163(0.30) 222-247(2.47)
gnl UG Hs#S3619221	0.83	4 33-58(0.11) 1651-1676(0.23) 1717-1743(0.83) 1767-1795(0.30)
gnl UG Hs#S2293742	2.09	5 52-77(1.07) 170-198(0.75) 320-345(1.04) 493-519(1.79) 758-787(2.09)
gnl UG Hs#S2140533	1.71	1 729-756(1.71)
gnl UG Hs#S1727886	0.21	1 741-767(0.21)
gnl UG Hs#S5860325	4.75	1 319-345(4.75)
gnl UG Hs#S4046160	3.99	5 71-96(0.26) 143-168(1.89) 175-203(0.62) 228-254(3.99) 259-285(0.89)
gnl UG Hs#S2294147	0.08	1 564-590(0.08)
gnl UG Hs#S3355562	1.4	1 458-484(1.40)
gnl UG Hs#S2294470	2.07	2 216-240(2.07) 1402-1429(0.23)
gnl UG Hs#S1729916	2.6	1 661-686(2.60)
gnl UG Hs#S1731886	2.39	3 662-687(2.39) 737-762(1.97) 828-854(1.50)
gnl UG Hs#S3219246	3.3	1 992-1017(3.30)
gnl UG Hs#S5517489	0.69	1 1854-1880(0.69)
gnl UG Hs#S4631029	3.21	4 686-711(3.21) 1313-1338(1.26) 1805-1829(0.36) 1977-2003(0.90)
gnl UG Hs#S4045632	2.08	2 493-518(0.98) 1003-1029(2.08)
gnl UG Hs#S4810003	2.6	2 361-387(2.60) 622-647(0.46)
gnl UG Hs#S1728532	0.37	1 1468-1496(0.37)
gnl UG Hs#S1732268	2.91	8 227-252(0.08) 570-598(1.11) 1039-1065(1.21) 1252-1278(0.10) 3269-3295(1.17) 3534-3560(2.91) 3742-3768(1.82) 3883-3908(1.40)
gnl UG Hs#S2334489	0.84	1 1530-1556(0.84)
gnl UG Hs#S1731291	1.59	1 264-292(1.59)
gnl UG Hs#S1730028	1.46	2 758-784(0.72) 808-833(1.46)
gnl UG Hs#S1727132	2.89	2 1290-1315(2.89) 1330-1355(0.40)
gnl UG Hs#S1730276	2.23	4 1729-1754(0.85) 2656-2683(1.79) 3171-3196(0.20) 3699-3725(2.23)
gnl UG Hs#S1726967	1.91	1 517-545(1.91)
gnl UG Hs#S1729386	0.92	2 986-1012(0.30) 1108-1137(0.92)
gnl UG Hs#S3973066	1.43	3 130-156(1.27) 295-320(1.43) 334-362(0.84)
gnl UG Hs#S3855031	0.21	1 1646-1671(0.21)
gnl UG Hs#S4546109	4.85	4 1067-1091(2.36) 1414-1439(4.85) 1490-1516(1.33) 1615-1641(1.40)
gnl UG Hs#S1728539	5.14	9 418-448(0.58) 488-514(0.83) 742-767(0.21) 1156-1182(5.14) 1292-1315(0.72) 1378-1403(0.11) 1684-1709(1.50) 1714-1739(2.89) 1990-2016(0.17)
gnl UG Hs#S7111636	2.97	3 22-47(0.05) 988-1013(0.30) 1014-1038(2.97)
gnl UG Hs#S4621002	3.07	3 471-499(3.07) 670-696(0.49) 1491-1516(0.84)
gnl UG Hs#S4546164	1.81	4 1493-1522(1.30) 1891-1919(0.17) 2034-2060(0.94) 2144-2169(1.81)
gnl UG Hs#S2139546	2.22	1 2404-2427(2.22)
gnl UG Hs#S4284418	1.98	4 138-164(1.98) 624-649(1.53) 664-689(0.41) 838-865(0.29)
gnl UG Hs#S2138844	3.57	1 502-527(3.57)
gnl UG Hs#S4630868	2.62	4 752-778(2.21) 1014-1040(2.08) 1074-1097(0.71) 1575-1603(2.62)
gnl UG Hs#S7110278	0.13	1 504-529(0.13)
gnl UG Hs#S3814692	1.43	1 67-92(1.43)
gnl UG Hs#S2140467	2.66	5 327-353(1.21) 394-420(1.23) 440-468(2.66) 1586-1611(1.72) 1643-1668(0.66)
gnl UG Hs#S4284711	2.26	3 163-188(0.30) 1653-1678(2.26) 1953-1979(0.50)
gnl UG Hs#S2649394	0.49	1 43-68(0.49)
gnl UG Hs#S3218916	0.82	2 152-177(0.17) 1862-1888(0.82)
gnl UG Hs#S1731583	2.65	2 39-66(0.87) 242-267(2.65)
gnl UG Hs#S1731125	0.5	1 41-67(0.50)
gnl UG Hs#S3438535	1.97	1 412-437(1.97)
gnl UG Hs#S1824495	1.23	3 586-612(1.23) 2038-2066(0.71) 2589-2613(0.08)
gnl UG Hs#S1731249	6.79	4 115-143(1.40) 360-385(6.79) 474-498(6.06) 551-579(1.30)
gnl UG Hs#S4824008	2.53	3 816-841(2.53) 1242-1267(1.08) 1323-1347(0.72)
gnl UG Hs#S3601565	1.72	1 298-323(1.72)
gnl UG Hs#S3220050	2.79	1 802-828(2.79)
gnl UG Hs#S15640010	1.4	1 182-207(1.40)

gnl UG Hs#S2293672	1.08	3	377-400(0.46) 523-549(1.08) 594-619(0.53)
gnl UG Hs#S1263833	1.04	1	201-226(1.04)
gnl UG Hs#S3438499	1.52	1	206-234(1.52)
gnl UG Hs#S4617323	3.36	4	698-723(1.62) 760-785(3.36) 1142-1168(1.72) 1307-1333(0.43)
gnl UG Hs#S1726689	2.62	3	726-751(2.62) 828-853(1.94) 1520-1545(0.91)
gnl UG Hs#S3880993	1.52	2	325-350(0.30) 978-1004(1.52)
gnl UG Hs#S1731054	1.98	4	912-936(0.09) 1177-1203(1.98) 1576-1602(0.08) 1659-1684(1.98)
gnl UG Hs#S15638190	2.42	2	73-98(0.75) 101-123(2.42)
gnl UG Hs#S4816599	1.07	2	230-258(1.07) 320-346(0.20)
gnl UG Hs#S1730195	0.49	2	189-214(0.49) 379-404(0.40)
gnl UG Hs#S3817887	0.24	1	95-120(0.24)
gnl UG Hs#S1731286	2.65	1	405-430(2.65)
gnl UG Hs#S4807743	2.98	7	290-315(0.20) 496-522(2.98) 726-751(0.08) 838-863(1.72) 902-927(0.40) 1028-1052(0.70) 1001-1026(0.08)
gnl UG Hs#S3335562	0.44	1	140-166(0.44)
gnl UG Hs#S3547094	1.16	3	35-60(1.04) 269-294(1.16) 906-933(0.33)
gnl UG Hs#S1728379	0.53	2	51-76(0.36) 77-102(0.53)
gnl UG Hs#S4807737	0.5	1	97-123(0.50)
gnl UG Hs#S4827272	2.9	2	300-325(2.36) 1581-1606(2.90)
gnl UG Hs#S4828229	1.3	3	349-374(1.30) 1092-1117(0.82) 2054-2082(0.76)
gnl UG Hs#S10831939	0.72	1	208-233(0.72)
gnl UG Hs#S14802446	1.94	1	687-712(1.94)
gnl UG Hs#S3438910	0.17	1	150-176(0.17)
gnl UG Hs#S2293246	1.04	1	428-454(1.04)
gnl UG Hs#S6664840	4.63	1	684-710(4.63)
gnl UG Hs#S3601556	0.2	1	405-430(0.20)
gnl UG Hs#S7111917	1.72	2	79-104(1.72) 1247-1275(0.52)
gnl UG Hs#S1726455	1.84	1	216-241(1.84)
gnl UG Hs#S2140219	0.15	1	296-321(0.15)
gnl UG Hs#S4435742	0.17	1	1027-1053(0.17)
gnl UG Hs#S1729550	0.4	1	315-340(0.40)
gnl UG Hs#S4823145	0.62	2	1243-1267(0.17) 1293-1321(0.62)
gnl UG Hs#S1729973	3.3	3	121-147(1.53) 259-285(0.37) 506-531(3.30)
gnl UG Hs#S3438601	2.5	5	156-181(0.46) 213-238(1.17) 715-741(0.11) 860-888(0.33) 1041-1066(2.50)
gnl UG Hs#S1727894	2.17	1	43-69(2.17)
gnl UG Hs#S3601678	1.3	4	672-696(0.14) 1844-1869(1.30) 2226-2254(1.30) 2477-2503(0.17)
gnl UG Hs#S3439010	3.89	3	118-143(1.39) 156-182(3.89) 690-718(3.71)
gnl UG Hs#S2294295	1.86	5	486-511(0.23) 595-620(0.08) 658-683(0.29) 972-995(0.42) 1140-1166(1.86)
gnl UG Hs#S4829321	4.42	7	345-372(3.06) 787-812(4.42) 1097-1122(0.01) 1350-1375(1.36) 1613-1638(1.33) 2230-2256(2.57) 3139-3164(0.30)
gnl UG Hs#S4435609	0.04	1	107-133(0.04)
gnl UG Hs#S3219907	1.99	1	148-176(1.99)
gnl UG Hs#S1728730	0.45	1	168-195(0.45)
gnl UG Hs#S3219578	1.75	1	218-243(1.75)
gnl UG Hs#S1732436	2.43	1	300-323(2.43)
gnl UG Hs#S1726826	3.39	1	1106-1132(3.39)
gnl UG Hs#S2294281	0.43	1	150-175(0.43)
gnl UG Hs#S5931071	0.04	1	176-204(0.04)
gnl UG Hs#S2138827	0.69	1	281-306(0.69)
gnl UG Hs#S2139497	3.3	14	184-209(0.94) 838-864(3.30) 1031-1057(0.72) 1571-1596(0.88) 2449-2473(1.47) 2678-2703(0.48) 2839-2864(0.07) 3029-3054(2.53) 3434-3459(1.25) 3996-4019(0.62) 4209-4234(1.37) 4387-4413(0)
gnl UG Hs#S3219956	0.37	1	235-260(0.37)
gnl UG Hs#S2139061	2.17	1	463-488(2.17)
gnl UG Hs#S1727927	1.78	1	33-58(1.78)
gnl UG Hs#S3547224	5.2	1	598-626(5.20)
gnl UG Hs#S14272733	1.48	3	858-882(0.33) 1636-1664(0.44) 1823-1848(1.48)
gnl UG Hs#S3438608	1.84	1	205-231(1.84)

gnl UG Hs#S4807820	1.94	2 238-263(1.94) 659-684(0.08)
gnl UG Hs#S1824549	0.75	1 406-431(0.75)
gnl UG Hs#S3993307	4.14	4 60-85(2.39) 484-510(4.14) 609-634(0.40) 1060-1086(0.23)
gnl UG Hs#S2293713	0.04	1 819-847(0.04)
gnl UG Hs#S1727277	1.37	3 54-79(0.23) 903-929(0.39) 1459-1485(1.37)
gnl UG Hs#S4044896	3.97	3 773-798(1.76) 1155-1180(3.97) 1266-1292(2.36)
gnl UG Hs#S4811632	1.94	5 273-298(1.40) 509-535(1.50) 739-764(0.72) 782-807(0.82) 1042-1067(1.94)
gnl UG Hs#S1731872	0.55	1 605-629(0.55)
gnl UG Hs#S5931074	2.58	3 621-646(2.20) 655-680(2.58) 729-754(0.75)
gnl UG Hs#S3219507	1.26	2 198-223(1.26) 2057-2082(0.79)
gnl UG Hs#S4807901	2.36	2 89-114(2.36) 895-922(0.14)
gnl UG Hs#S10831568	0.39	2 862-888(0.39) 1336-1365(0.39)
gnl UG Hs#S4828339	0.04	1 228-251(0.04)
gnl UG Hs#S4826558	0.86	4 2065-2093(0.17) 2106-2132(0.86) 2190-2215(0.72) 3157-3183(0.17)
gnl UG Hs#S1726458	0.08	1 791-817(0.08)
gnl UG Hs#S2139823	1.65	5 122-148(0.01) 386-411(1.26) 644-669(0.52) 749-772(0.88) 1054-1079(1.65)
gnl UG Hs#S4825774	0.2	1 1206-1231(0.20)
gnl UG Hs#S3619667	1.57	3 131-159(1.48) 400-425(0.84) 459-487(1.57)
gnl UG Hs#S4809932	0.5	1 1038-1063(0.50)
gnl UG Hs#S3219413	1.57	2 598-623(0.72) 696-722(1.57)
gnl UG Hs#S4284863	1.49	2 4510-4538(1.49) 5496-5523(0.51)
gnl UG Hs#S3439023	0.62	1 12-37(0.62)
gnl UG Hs#S14273449	0.11	1 52-77(0.11)
gnl UG Hs#S4426438	0.42	1 1404-1427(0.42)
gnl UG Hs#S7111491	2.52	1 1487-1512(2.52)
gnl UG Hs#S1731770	1.01	1 72-98(1.01)
gnl UG Hs#S1729275	2.57	3 1410-1435(2.57) 1628-1653(1.57) 1654-1678(1.43)
gnl UG Hs#S2293282	1.01	1 102-127(1.01)
gnl UG Hs#S10832307	3.98	3 59-84(3.98) 1687-1713(1.38) 3501-3526(1.40)
gnl UG Hs#S15636757	0.53	1 811-836(0.53)
gnl UG Hs#S1728245	1.46	2 369-394(1.46) 644-669(1.13)
gnl UG Hs#S4620999	1.36	1 2497-2522(1.36)
gnl UG Hs#S3619165	3.13	2 1425-1450(3.13) 1466-1491(0.47)
gnl UG Hs#S4823114	1.26	4 547-575(0.24) 2226-2251(1.26) 2856-2881(0.46) 3229-3256(1.24)
gnl UG Hs#S4546257	1.34	1 565-591(1.34)
gnl UG Hs#S1728053	3.72	5 1570-1595(0.30) 1680-1705(0.63) 2168-2193(0.68) 2347-2372(3.72) 2592-2617(0.65)
gnl UG Hs#S2293721	0.91	1 1144-1171(0.91)
gnl UG Hs#S6693365	5.04	5 2-27(0.65) 915-943(1.62) 977-1002(5.04) 1120-1145(4.53) 1364-1393(1.71)
gnl UG Hs#S3438550	0.21	1 1063-1089(0.21)
gnl UG Hs#S2140071	2.94	1 320-348(2.94)
gnl UG Hs#S1726941	2.82	2 387-415(0.85) 436-461(2.82)
gnl UG Hs#S2294141	0.84	4 473-502(0.82) 526-552(0.58) 594-620(0.84) 1417-1442(0.50)
gnl UG Hs#S2294086	1.11	1 282-306(1.11)
gnl UG Hs#S998717	0.13	2 298-324(0.02) 3379-3405(0.13)
gnl UG Hs#S4815303	3.07	1 32-57(3.07)
gnl UG Hs#S2139957	4.28	5 244-269(0.45) 786-814(1.49) 853-878(4.28) 1316-1343(0.75) 2638-2666(3.84)
gnl UG Hs#S3219192	2.63	6 843-869(0.12) 1090-1117(0.39) 1338-1363(0.63) 1902-1927(1.40) 2054-2079(2.63) 2124-2152(0.20)
gnl UG Hs#S2294438	0.51	1 1423-1448(0.51)
gnl UG Hs#S4827348	1.4	1 2630-2655(1.40)
gnl UG Hs#S4284695	1.75	2 333-358(0.06) 367-392(1.75)
gnl UG Hs#S2293816	1.04	1 240-265(1.04)
gnl UG Hs#S2294595	1.82	1 162-187(1.82)
gnl UG Hs#S5978573	1.99	3 16-44(0.71) 160-185(0.91) 313-337(1.99)
gnl UG Hs#S4814089	5.08	1 2069-2095(5.08)

gnl UG Hs#S1730514	1.07	1 212-237(1.07)
gnl UG Hs#S1730854	2.04	2 344-369(2.04) 834-859(0.65)
gnl UG Hs#S2293558	3.01	4 162-190(0.16) 843-868(1.39) 961-986(1.23) 987-1012(3.01)
gnl UG Hs#S3619310	3.2	2 42-67(0.13) 526-552(3.20)
gnl UG Hs#S4825170	5.46	8 628-653(5.46) 671-694(0.87) 961-986(3.89) 1001-1024(2.31) 1037-1063(3.04) 1261-1286(0.30) 1318-1343(2.78) 1361-1389(0.23)
gnl UG Hs#S3438856	2.23	1 916-944(2.23)
gnl UG Hs#S3619170	5.37	2 470-494(0.04) 877-902(5.37)
gnl UG Hs#S5517747	1.37	1 1331-1357(1.37)
gnl UG Hs#S1727582	0.5	1 445-470(0.50)
gnl UG Hs#S2140037	1.84	2 335-360(0.04) 427-454(1.84)
gnl UG Hs#S1726325	4.08	5 391-419(0.72) 2322-2348(2.34) 2618-2644(0.76) 2646-2673(1.20) 3072-3097(4.08)
gnl UG Hs#S3219790	3.86	3 117-142(0.08) 860-886(3.86) 1035-1060(0.14)
gnl UG Hs#S1367575	2.57	9 83-109(0.10) 121-146(0.63) 586-611(0.52) 830-855(0.30) 888-912(0.75) 1537-1562(2.17) 2440-2465(1.21) 3253-3278(1.78) 3510-3535(2.57)
gnl UG Hs#S6159130	2.17	3 210-234(0.29) 1133-1159(2.17) 1732-1758(0.86)
gnl UG Hs#S1727160	2.5	1 75-100(2.50)
gnl UG Hs#S4807719	5.36	11 215-240(5.36) 276-301(0.46) 785-810(4.46) 855-880(2.72) 963-989(0.17) 1166-1191(2.20) 1419-1445(3.92) 1556-1581(1.56) 1608-1633(0.65) 2289-2316(1.48) 2512-2538(0.54)
gnl UG Hs#S3220048	1.92	4 120-147(1.92) 186-211(0.43) 302-329(0.11) 352-377(0.55)
gnl UG Hs#S6158562	1.69	2 650-678(0.98) 1446-1472(1.69)
gnl UG Hs#S4807752	0.26	1 609-634(0.26)
gnl UG Hs#S15634727	8.01	6 43-67(4.26) 676-704(0.94) 2283-2311(0.42) 2328-2353(8.01) 2420-2445(0.66) 3134-3157(0.25)
gnl UG Hs#S1973049	2.08	4 2323-2349(0.26) 2448-2474(2.08) 3002-3028(1.33) 3377-3405(1.18)
gnl UG Hs#S6163462	3.75	1 70-98(3.75)
gnl UG Hs#S15641444	1.99	1 126-149(1.99)
gnl UG Hs#S2138879	0.14	1 840-865(0.14)
gnl UG Hs#S3219934	0.48	1 474-499(0.48)
gnl UG Hs#S2139408	1.34	2 497-523(1.34) 566-593(0.43)
gnl UG Hs#S15635836	3.08	2 320-347(0.15) 369-394(3.08)
gnl UG Hs#S5494993	1.21	1 250-278(1.21)
gnl UG Hs#S4631239	3.94	2 60-84(3.94) 196-221(1.72)
gnl UG Hs#S4807591	3.04	3 975-1002(2.51) 1538-1563(0.91) 1766-1791(3.04)
gnl UG Hs#S4396022	0.19	1 196-223(0.19)
gnl UG Hs#S3219051	0.32	1 175-200(0.32)
gnl UG Hs#S1569388	1.82	2 1391-1416(1.11) 1449-1474(1.82)
gnl UG Hs#S4812303	4.4	2 915-943(4.40) 962-988(0.95)
gnl UG Hs#S4554612	0.11	1 1270-1296(0.11)
gnl UG Hs#S3990946	4.47	5 313-339(4.47) 1116-1142(3.73) 1159-1185(0.58) 1279-1305(0.30) 1318-1346(0.08)
gnl UG Hs#S1729184	4.47	2 366-390(0.67) 593-618(4.47)
gnl UG Hs#S1727847	1.17	1 1169-1195(1.17)
gnl UG Hs#S11046686	0.01	1 1335-1361(0.01)
gnl UG Hs#S1732058	0.3	1 196-221(0.30)
gnl UG Hs#S1726440	4.85	4 477-505(1.25) 526-554(0.39) 749-775(0.72) 868-893(4.85)
gnl UG Hs#S1726925	1.98	1 785-810(1.98)
gnl UG Hs#S3619402	2.4	4 222-248(2.40) 367-392(0.34) 429-452(0.55) 601-627(0.23)
gnl UG Hs#S4821116	2.92	3 95-120(2.92) 334-359(1.56) 404-430(2.64)
gnl UG Hs#S2139437	0.92	1 200-225(0.92)
gnl UG Hs#S4623365	3.98	8 866-892(0.94) 1715-1740(1.13) 2052-2077(0.30) 2255-2280(0.11) 2542-2568(0.52) 3144-3169(0.46) 3415-3440(3.98) 3812-3837(0.33)
gnl UG Hs#S1824277	3.39	2 19-47(1.52) 125-150(3.39)
gnl UG Hs#S1731337	2.48	7 234-264(1.05) 570-594(2.48) 811-837(0.59) 855-880(0.33) 899-924(0.57) 1211-1238(0.32) 1557-1580(0.15)
gnl UG Hs#S2140108	3.81	1 421-447(3.81)
gnl UG Hs#S5979234	3.89	2 337-362(0.87) 1902-1926(3.89)
gnl UG Hs#S4617991	1.26	2 113-138(1.26) 687-713(0.17)
gnl UG Hs#S4283622	2.07	3 263-288(0.58) 2271-2296(2.07) 2730-2755(0.84)
gnl UG Hs#S15642318	2.63	1 568-593(2.63)
gnl UG Hs#S3219198	2.4	9 1081-1107(0.58) 1223-1249(2.40) 1582-1605(1.74) 1906-1932(1.76) 2018-2044(1.27) 2297-2323(2.14) 2324-2350(0.60) 2535-2558(1.67) 2716-2743(0.98)

gnl UG Hs#S6687001	0.5	1 1058-1084(0.50)
gnl UG Hs#S1729614	2.21	2 547-573(0.84) 1097-1122(2.21)
gnl UG Hs#S1730123	0.16	2 54-82(0.16) 199-224(0.04)
gnl UG Hs#S1727330	3.98	1 299-324(3.98)
gnl UG Hs#S6163075	1.51	4 273-302(1.03) 779-807(0.59) 1015-1042(1.51) 1051-1076(0.02)
gnl UG Hs#S4554576	1.57	4 165-190(1.57) 881-906(0.65) 1146-1172(0.23) 1200-1228(1.42)
gnl UG Hs#S3219872	0.94	2 633-661(0.30) 682-708(0.94)
gnl UG Hs#S15638175	0.94	1 1416-1444(0.94)
gnl UG Hs#S7111488	1.01	2 2024-2049(0.07) 2098-2124(1.01)
gnl UG Hs#S3219079	0.11	1 677-702(0.11)
gnl UG Hs#S4616468	4.82	6 175-200(0.53) 424-449(1.58) 470-495(0.33) 944-969(4.82) 1479-1502(1.29) 1824-1850(2.30)
gnl UG Hs#S2139716	1.89	2 708-733(0.17) 872-897(1.89)
gnl UG Hs#S1730099	4.79	6 418-443(2.20) 545-570(0.79) 1144-1168(0.68) 1421-1446(0.71) 1885-1910(3.63) 2171-2196(4.79)
gnl UG Hs#S2139578	1.33	1 2258-2283(1.33)
gnl UG Hs#S1731694	1.49	1 185-213(1.49)
gnl UG Hs#S1731346	0.66	1 1286-1314(0.66)
gnl UG Hs#S2138922	0.49	1 1-29(0.49)
gnl UG Hs#S11046640	0.01	1 88-116(0.01)
gnl UG Hs#S4044516	1.21	1 53-76(1.21)
gnl UG Hs#S3219913	1.95	4 176-202(0.33) 647-673(0.20) 740-765(1.95) 851-876(1.23)
gnl UG Hs#S3220034	2.36	3 1230-1255(2.36) 1841-1866(1.46) 2633-2659(1.30)
gnl UG Hs#S2140424	1.36	3 69-94(1.36) 238-264(1.20) 302-326(0.03)
gnl UG Hs#S3601748	0.94	2 76-102(0.94) 1331-1357(0.23)
gnl UG Hs#S3439015	4.2	2 596-621(4.20) 730-755(0.07)
gnl UG Hs#S4810144	1.26	1 259-284(1.26)
gnl UG Hs#S1727548	1.5	3 496-521(0.50) 572-597(1.50) 541-564(0.47)
gnl UG Hs#S4546268	1.08	2 87-112(0.33) 138-164(1.08)
gnl UG Hs#S3881307	1.63	1 802-827(1.63)
gnl UG Hs#S1730366	2.26	1 1741-1766(2.26)
gnl UG Hs#S2140274	3.21	1 21-45(3.21)
gnl UG Hs#S2293568	4.15	5 283-308(1.82) 615-642(1.29) 678-703(0.13) 818-844(4.15) 1630-1658(2.00)
gnl UG Hs#S1727615	0.13	1 145-173(0.13)
gnl UG Hs#S1730128	2.94	3 224-249(1.89) 570-598(1.27) 614-641(2.94)
gnl UG Hs#S7110248	0.34	1 616-640(0.34)
gnl UG Hs#S3603860	0.97	1 118-143(0.97)
gnl UG Hs#S1729304	1.61	1 1826-1851(1.61)
gnl UG Hs#S4814568	1.62	1 86-114(1.62)
gnl UG Hs#S4046549	1.81	3 337-362(0.46) 459-483(1.51) 1045-1070(1.81)
gnl UG Hs#S1732185	0.61	1 387-411(0.61)
gnl UG Hs#S14273473	0.49	2 143-171(0.49) 379-407(0.30)
gnl UG Hs#S4807720	3.2	3 285-310(0.07) 487-512(0.84) 618-646(3.20)
gnl UG Hs#S1726841	1.91	1 243-269(1.91)
gnl UG Hs#S1726756	4.92	1 390-415(4.92)
gnl UG Hs#S1732413	0.21	2 221-247(0.21) 862-888(0.02)
gnl UG Hs#S2139566	2.01	3 410-433(0.62) 661-684(0.29) 968-993(2.01)
gnl UG Hs#S3220080	2.53	3 776-805(0.08) 1275-1298(0.46) 1523-1548(2.53)
gnl UG Hs#S3355499	0.43	1 234-260(0.43)
gnl UG Hs#S3619133	1.39	3 247-273(1.30) 965-990(0.07) 1085-1110(1.39)
gnl UG Hs#S3219994	1.72	1 536-561(1.72)
gnl UG Hs#S1729030	3.2	1 901-927(3.20)
gnl UG Hs#S1726894	2.13	2 308-335(2.13) 424-449(0.16)
gnl UG Hs#S3219699	0.57	2 647-674(0.57) 1129-1155(0.04)
gnl UG Hs#S4807741	0.04	1 946-971(0.04)
gnl UG Hs#S2293833	2.24	1 173-198(2.24)

gnl UG Hs#S3817946	2.01	1 258-284(2.01)
gnl UG Hs#S4807695	1.4	1 163-188(1.40)
gnl UG Hs#S1824385	1.58	2 3280-3305(1.53) 3439-3464(1.58)
gnl UG Hs#S14802306	2.37	2 337-362(2.37) 435-460(1.39)
gnl UG Hs#S1728409	1.55	1 620-645(1.55)
gnl UG Hs#S2139002	0.05	1 179-204(0.05)
gnl UG Hs#S1728847	2.07	4 131-159(2.07) 338-365(0.20) 401-429(0.61) 1061-1087(1.50)
gnl UG Hs#S2139243	1.46	1 189-212(1.46)
gnl UG Hs#S1732318	1.56	1 115-141(1.56)
gnl UG Hs#S4815217	2.37	2 46-73(1.26) 446-472(2.37)
gnl UG Hs#S3219960	0.14	1 979-1004(0.14)
gnl UG Hs#S3802945	0.4	2 243-268(0.07) 1244-1270(0.40)
gnl UG Hs#S1727473	1.79	3 74-99(1.79) 172-197(0.98) 577-602(1.24)
gnl UG Hs#S2293458	2.04	1 510-535(2.04)
gnl UG Hs#S2138797	1	1 901-925(1.00)
gnl UG Hs#S1731939	1.58	3 227-253(1.43) 896-921(0.30) 1146-1171(1.58)
gnl UG Hs#S3619401	1.45	1 128-156(1.45)
gnl UG Hs#S3438548	3.72	8 598-624(3.72) 1321-1346(0.08) 1387-1412(1.39) 1427-1454(2.16) 2232-2257(1.96) 2605-2630(2.46) 3272-3300(1.42) 3480-3503(0.95)
gnl UG Hs#S1730961	4.62	1 75-101(4.62)
gnl UG Hs#S6163425	0.72	1 575-600(0.72)
gnl UG Hs#S4553576	3.36	3 323-348(3.36) 370-395(0.72) 866-892(0.59)
gnl UG Hs#S1728837	1.91	2 591-616(1.91) 722-747(1.21)
gnl UG Hs#S3837460	0.82	1 1028-1053(0.82)
gnl UG Hs#S1728170	3.4	3 263-291(3.40) 525-550(0.97) 575-603(0.35)
gnl UG Hs#S4831140	1.33	1 10-37(1.33)
gnl UG Hs#S1729340	2.26	1 289-314(2.26)
gnl UG Hs#S2293781	0.61	1 228-254(0.61)
gnl UG Hs#S3219334	5.96	6 111-136(0.16) 471-496(0.04) 758-784(0.11) 906-931(5.96) 1519-1544(0.50) 1603-1628(0.66)
gnl UG Hs#S14863513	0.79	1 406-431(0.79)
gnl UG Hs#S1727032	2.4	1 67-95(2.40)
gnl UG Hs#S15631451	0.46	1 792-817(0.46)
gnl UG Hs#S11062708	1.72	2 511-536(1.72) 626-651(1.08)
gnl UG Hs#S1727467	0.95	1 496-522(0.95)
gnl UG Hs#S1728226	2.89	2 222-247(0.40) 389-413(2.89)
gnl UG Hs#S14273045	1.31	1 285-309(1.31)
gnl UG Hs#S1730732	0.2	5 570-595(0.20) 602-627(0.20) 634-659(0.20) 666-691(0.20) 1363-1388(0.04)
gnl UG Hs#S4436317	3.98	1 980-1005(3.98)
gnl UG Hs#S15631449	1.81	1 1281-1309(1.81)
gnl UG Hs#S3817904	3.72	3 258-283(2.04) 444-469(3.72) 948-973(2.46)
gnl UG Hs#S4809309	2.62	4 412-437(2.62) 512-536(0.62) 817-842(1.04) 1254-1280(0.91)
gnl UG Hs#S4809559	1.58	1 104-129(1.58)
gnl UG Hs#S11046603	0.36	1 26-52(0.36)
gnl UG Hs#S1730371	2.13	1 49-74(2.13)
gnl UG Hs#S4631334	1.03	2 385-413(0.49) 446-474(1.03)
gnl UG Hs#S4819921	3.4	6 230-255(1.40) 287-315(0.66) 882-908(0.34) 1529-1554(0.08) 1805-1833(3.40) 2249-2274(1.95)
gnl UG Hs#S3219006	3.24	4 137-162(2.43) 208-235(3.24) 247-273(0.60) 305-330(0.17)
gnl UG Hs#S14812481	2.08	2 45-73(2.08) 197-225(0.75)
gnl UG Hs#S14273061	3.53	1 401-426(3.53)
gnl UG Hs#S4807837	2.3	1 433-458(2.30)
gnl UG Hs#S4621616	1.1	1 769-793(1.10)
gnl UG Hs#S1728211	3.52	2 442-466(3.52) 638-665(2.20)
gnl UG Hs#S1732123	0.91	2 257-283(0.91) 877-905(0.40)
gnl UG Hs#S11590893	3.52	1 765-790(3.52)
gnl UG Hs#S3219892	4.4	4 230-255(4.39) 256-281(4.40) 389-414(1.04) 682-707(1.48)

gnl UG Hs#S2139086	0.62	1	509-535(0.62)
gnl UG Hs#S3601775	1.62	2	1228-1255(1.01) 1427-1450(1.62)
gnl UG Hs#S11062787	2.72	8	135-161(0.72) 223-248(0.50) 273-298(2.72) 765-793(2.59) 1194-1219(1.79) 1433-1458(1.07) 1699-1727(0.84) 1998-2024(1.50)
gnl UG Hs#S3355475	0.01	1	136-161(0.01)
gnl UG Hs#S2140671	0.98	1	727-752(0.98)
gnl UG Hs#S4814817	0.5	3	621-649(0.08) 1100-1125(0.50) 2470-2498(0.01)
gnl UG Hs#S7112736	0.98	1	54-80(0.98)
gnl UG Hs#S4396119	1	3	995-1020(1.00) 2170-2196(0.04) 3074-3099(0.13)
gnl UG Hs#S2294421	2.46	1	446-473(2.46)
gnl UG Hs#S1824350	0.89	1	102-126(0.89)
gnl UG Hs#S1729874	2.89	4	91-116(2.89) 179-204(1.65) 400-423(1.63) 484-510(0.72)
gnl UG Hs#S3619225	4.2	1	246-274(4.20)
gnl UG Hs#S2294489	0.51	3	133-158(0.17) 296-324(0.51) 941-966(0.40)
gnl UG Hs#S11046711	4.11	4	811-836(3.13) 1026-1052(1.39) 1301-1327(4.11) 1712-1740(2.07)
gnl UG Hs#S1569967	1.5	1	1457-1482(1.50)
gnl UG Hs#S4546110	2.04	1	4-29(2.04)
gnl UG Hs#S15631718	1.18	4	51-77(0.08) 79-104(0.98) 339-362(0.65) 435-460(1.18)
gnl UG Hs#S1726698	1.97	1	140-167(1.97)
gnl UG Hs#S5978525	1.57	2	850-875(0.04) 1657-1682(1.57)
gnl UG Hs#S3333526	2.56	5	224-250(0.82) 306-331(2.56) 921-944(0.67) 1847-1874(0.59) 2121-2149(0.16)
gnl UG Hs#S15115720	0.4	1	782-808(0.40)
gnl UG Hs#S6158998	0.28	1	265-291(0.28)
gnl UG Hs#S2139277	0.65	1	57-82(0.65)
gnl UG Hs#S3219921	1.14	1	91-117(1.14)
gnl UG Hs#S2138994	0.5	1	803-829(0.50)
gnl UG Hs#S1729202	2.5	1	377-402(2.50)
gnl UG Hs#S4830975	2.17	3	181-207(2.17) 851-876(0.26) 1208-1236(1.30)
gnl UG Hs#S15642840	1.82	1	489-515(1.82)
gnl UG Hs#S1731433	1.82	1	988-1013(1.82)
gnl UG Hs#S3601667	4.3	6	240-263(1.47) 296-321(0.91) 760-785(4.30) 792-817(2.04) 832-857(0.48) 1087-1112(2.30)
gnl UG Hs#S2139290	0.82	2	109-134(0.65) 702-728(0.82)
gnl UG Hs#S1730031	0.23	1	945-971(0.23)
gnl UG Hs#S1729750	0.91	2	559-584(0.23) 1212-1240(0.91)
gnl UG Hs#S4816351	1.5	3	785-810(1.50) 2183-2208(0.55) 2331-2358(0.41)
gnl UG Hs#S4554618	1.01	1	165-190(1.01)
gnl UG Hs#S2294282	3.82	5	480-503(0.53) 537-563(1.82) 1667-1692(0.21) 2164-2192(1.49) 2375-2401(3.82)
gnl UG Hs#S3219702	2.43	11	133-159(0.91) 388-413(0.13) 462-487(2.43) 510-538(0.88) 773-798(0.52) 929-957(0.38) 1107-1132(0.36) 1466-1494(1.91) 1538-1563(1.04) 1569-1597(1.84) 1834-1860(2.33)
gnl UG Hs#S14802392	2.11	1	1567-1592(2.11)
gnl UG Hs#S5860336	1.82	2	667-692(1.82) 739-765(0.85)
gnl UG Hs#S1730711	2.62	1	176-201(2.62)
gnl UG Hs#S2655080	4.26	2	1662-1686(4.26) 2196-2222(0.04)
gnl UG Hs#S1730046	1.79	3	20-48(1.59) 98-123(1.79) 215-240(0.04)
gnl UG Hs#S4046180	1.08	4	268-294(0.18) 746-771(1.08) 897-924(1.01) 1141-1166(0.74)
gnl UG Hs#S1726576	0.11	1	250-275(0.11)
gnl UG Hs#S4822632	1.36	1	464-490(1.36)
gnl UG Hs#S3438725	1.91	4	123-151(0.15) 882-908(0.34) 946-973(1.91) 1265-1292(0.20)
gnl UG Hs#S4829013	1.94	1	2155-2181(1.94)
gnl UG Hs#S5978596	2.82	1	708-734(2.82)
gnl UG Hs#S4829107	3.31	1	613-639(3.31)
gnl UG Hs#S1728230	1.64	2	461-487(0.23) 541-566(1.64)
gnl UG Hs#S2649401	3.56	9	31-57(0.53) 393-418(1.36) 1062-1087(0.13) 1223-1248(3.46) 1850-1875(0.85) 2221-2246(3.56) 2695-2720(0.66) 2781-2807(0.10) 2821-2847(1.65)
gnl UG Hs#S15638198	0.15	1	844-871(0.15)
gnl UG Hs#S5930947	1.66	1	197-225(1.66)
gnl UG Hs#S1730353	2.76	2	448-474(2.76) 964-989(1.11)

gnl UG Hs#S1730637	0.72	2	167-192(0.20) 1757-1784(0.72)
gnl UG Hs#S1731741	1.18	1	167-194(1.18)
gnl UG Hs#S1729746	0.56	1	297-324(0.56)
gnl UG Hs#S4002090	0.43	1	322-348(0.43)
gnl UG Hs#S1728718	0.65	1	173-198(0.65)
gnl UG Hs#S2293637	1.91	5	1922-1947(0.84) 1955-1983(0.76) 3780-3807(0.56) 3829-3855(1.91) 4077-4102(0.92)
gnl UG Hs#S1731064	3.78	4	1482-1507(3.78) 2163-2191(3.30) 2478-2507(0.40) 3018-3045(0.07)
gnl UG Hs#S4821577	4.7	2	264-289(4.70) 496-523(1.24)
gnl UG Hs#S1732190	1.98	1	1301-1326(1.98)
gnl UG Hs#S3601618	0.49	2	984-1009(0.13) 1031-1059(0.49)
gnl UG Hs#S3803668	1.53	10	65-91(0.07) 157-182(0.50) 963-988(0.53) 1836-1861(0.50) 2855-2880(0.82) 2925-2951(0.69) 3183-3208(1.53) 3846-3874(0.35) 3935-3961(1.50) 4232-4257(0.94)
gnl UG Hs#S3438337	0.23	2	626-654(0.23) 740-766(0.04)
gnl UG Hs#S15642409	1.39	3	7-34(1.39) 53-81(1.23) 121-149(0.47)
gnl UG Hs#S1728831	0.91	3	897-925(0.04) 1671-1694(0.27) 1974-2000(0.91)
gnl UG Hs#S4807645	0.13	1	5-28(0.13)
gnl UG Hs#S3219280	2.2	3	310-337(2.20) 393-419(0.57) 883-909(1.99)
gnl UG Hs#S6158543	2.14	4	1566-1594(2.13) 1699-1725(0.10) 1731-1759(2.14) 2529-2554(0.98)
gnl UG Hs#S1729491	0.1	2	78-104(0.08) 711-737(0.10)
gnl UG Hs#S4619502	1.03	2	2164-2191(0.62) 2611-2636(1.03)
gnl UG Hs#S3438570	0.87	1	394-419(0.87)
gnl UG Hs#S2293535	1.46	1	419-444(1.46)
gnl UG Hs#S1726488	1.91	2	438-464(1.91) 825-853(0.07)
gnl UG Hs#S5978435	2.11	4	853-879(0.08) 1325-1351(2.11) 2632-2655(0.11) 2826-2851(0.36)
gnl UG Hs#S4621303	0.13	2	333-363(0.01) 523-551(0.13)
gnl UG Hs#S3438909	0.82	1	254-277(0.82)
gnl UG Hs#S1728970	2.3	3	200-225(2.30) 323-351(1.79) 575-600(1.65)
gnl UG Hs#S15730161	2.98	5	245-270(0.04) 509-534(2.11) 1019-1045(0.95) 1145-1170(0.72) 1814-1839(2.98)
gnl UG Hs#S15636362	1.34	2	46-73(0.26) 1691-1718(1.34)
gnl UG Hs#S1730958	2.82	3	370-395(1.55) 550-575(2.82) 1085-1110(0.10)
gnl UG Hs#S2293845	2.4	1	98-126(2.40)
gnl UG Hs#S2293308	2.29	6	195-220(0.46) 514-539(1.36) 845-871(0.33) 886-911(1.68) 934-959(2.29) 983-1008(2.01)
gnl UG Hs#S2139467	0.83	1	3464-3490(0.83)
gnl UG Hs#S6664690	0.93	2	276-301(0.04) 313-338(0.93)
gnl UG Hs#S1731173	1.66	1	492-520(1.66)
gnl UG Hs#S1729003	0.49	1	519-545(0.49)
gnl UG Hs#S1731795	1.04	2	392-417(0.32) 1105-1130(1.04)
gnl UG Hs#S3619246	3.33	2	308-334(1.08) 2152-2177(3.33)
gnl UG Hs#S3438564	2.02	2	428-453(1.13) 1166-1193(2.02)
gnl UG Hs#S7113287	2.89	3	101-126(2.89) 128-154(1.17) 645-670(0.91)
gnl UG Hs#S2139156	2	3	84-110(0.06) 152-177(0.13) 259-284(2.00)
gnl UG Hs#S3603848	3.2	8	1342-1367(0.24) 1561-1586(1.53) 1721-1747(0.08) 1808-1836(1.62) 1932-1959(3.20) 2367-2395(0.01) 2940-2966(0.66) 3483-3508(0.98)
gnl UG Hs#S3219723	0.82	2	334-360(0.82) 649-675(0.08)
gnl UG Hs#S1731120	4.82	5	269-294(1.53) 512-538(2.77) 881-906(0.08) 1358-1386(1.49) 1437-1463(4.82)
gnl UG Hs#S4841854	0.98	2	299-322(0.98) 622-650(0.15)
gnl UG Hs#S1729577	0.62	2	327-353(0.62) 473-501(0.62)
gnl UG Hs#S2139543	0.13	1	100-127(0.13)
gnl UG Hs#S10832108	0.75	1	393-419(0.75)
gnl UG Hs#S3438998	0.54	2	248-274(0.54) 360-385(0.48)
gnl UG Hs#S2140252	3.43	2	10-35(3.43) 406-431(0.81)
gnl UG Hs#S3219780	0.23	1	281-309(0.23)
gnl UG Hs#S2294294	1.83	1	582-608(1.83)
gnl UG Hs#S3438346	2.99	2	141-167(2.99) 662-685(0.03)
gnl UG Hs#S7111311	1.87	1	1971-1996(1.87)
gnl UG Hs#S11046606	1.79	2	322-347(1.43) 603-628(1.79)

gnl UG Hs#S4809442	1.65	2	1825-1852(0.13) 2072-2098(1.65)
gnl UG Hs#S1729959	1.07	2	35-61(0.02) 279-307(1.07)
gnl UG Hs#S3940548	1.98	3	720-745(0.81) 1045-1070(1.98) 1171-1196(0.91)
gnl UG Hs#S1730105	2.33	1	269-294(2.33)
gnl UG Hs#S15634157	0.24	1	3-28(0.24)
gnl UG Hs#S4818134	0.14	1	323-348(0.14)
gnl UG Hs#S1729641	0.94	1	121-149(0.94)
gnl UG Hs#S2293801	0.33	1	1153-1178(0.33)
gnl UG Hs#S1732239	0.08	1	422-447(0.08)
gnl UG Hs#S2139639	2.89	1	549-575(2.89)
gnl UG Hs#S4817155	1.5	2	867-893(1.50) 895-920(1.17)
gnl UG Hs#S3219107	1.53	1	96-122(1.53)
gnl UG Hs#S2138940	5.58	1	1384-1409(5.58)
gnl UG Hs#S1729950	1.01	1	724-750(1.01)
gnl UG Hs#S2650878	1.5	2	188-213(0.26) 380-405(1.50)
gnl UG Hs#S2139583	2.08	6	452-478(0.79) 630-655(1.84) 702-727(0.34) 905-930(1.91) 1132-1159(0.88) 2161-2187(2.08)
gnl UG Hs#S15636092	5.46	5	625-650(5.46) 958-983(3.89) 998-1021(2.31) 1034-1060(3.04) 1258-1283(0.30)
gnl UG Hs#S7112368	2.89	1	290-315(2.89)
gnl UG Hs#S6693153	0.4	1	141-168(0.40)
gnl UG Hs#S2139283	4.08	4	375-398(0.48) 1256-1284(0.59) 1519-1543(1.10) 1597-1623(4.08)
gnl UG Hs#S2294546	3.13	5	406-432(0.45) 1155-1179(0.87) 1611-1636(3.13) 1700-1728(1.88) 1750-1775(0.79)
gnl UG Hs#S3602317	0.75	2	24-50(0.75) 1203-1229(0.30)
gnl UG Hs#S1728305	0.94	2	181-206(0.94) 404-430(0.78)
gnl UG Hs#S3219980	2.46	1	1063-1089(2.46)
gnl UG Hs#S4821599	1.23	5	934-960(1.23) 1326-1353(0.79) 2072-2100(0.13) 2939-2965(0.59) 2966-2994(0.45)
gnl UG Hs#S4283752	0.23	1	221-247(0.23)
gnl UG Hs#S1731393	0.11	1	244-270(0.11)
gnl UG Hs#S4631232	2.46	2	53-78(2.46) 1076-1104(0.94)
gnl UG Hs#S4823834	2.5	2	26-52(2.50) 383-409(0.94)
gnl UG Hs#S3601585	1.2	2	737-763(1.15) 1436-1462(1.20)
gnl UG Hs#S1731987	0.94	2	770-795(0.07) 835-860(0.94)
gnl UG Hs#S1731327	0.04	1	226-254(0.04)
gnl UG Hs#S4807677	1.6	4	537-562(0.59) 608-634(1.60) 921-946(1.46) 1160-1185(1.34)
gnl UG Hs#S4614004	1.53	1	407-432(1.53)
gnl UG Hs#S4436219	2.36	2	1483-1508(0.04) 1568-1596(2.36)
gnl UG Hs#S4284742	3.3	1	570-595(3.30)
gnl UG Hs#S1727180	3.82	1	135-161(3.82)
gnl UG Hs#S2294327	0.33	1	499-524(0.33)
gnl UG Hs#S2139699	0.91	3	372-395(0.77) 401-426(0.43) 991-1016(0.91)
gnl UG Hs#S4817377	0.36	1	22-48(0.36)
gnl UG Hs#S2293165	0.66	1	1147-1173(0.66)
gnl UG Hs#S10832001	2.23	1	618-646(2.23)
gnl UG Hs#S1726311	3.79	4	576-602(3.79) 1790-1816(0.17) 2137-2165(1.13) 2359-2387(0.35)
gnl UG Hs#S4554621	0.43	1	627-653(0.43)
gnl UG Hs#S5978539	2.98	4	913-938(1.94) 1087-1113(1.17) 1164-1190(0.11) 1354-1382(2.98)
gnl UG Hs#S4807730	2.68	1	10-36(2.68)
gnl UG Hs#S1729353	1.17	1	542-567(1.17)
gnl UG Hs#S2139187	4.14	2	28-55(3.37) 55-80(4.14)
gnl UG Hs#S2139402	1.36	4	1353-1378(0.16) 2130-2156(1.36) 3023-3048(1.34) 3212-3237(0.04)
gnl UG Hs#S15115685	2.08	1	702-728(2.08)
gnl UG Hs#S2293457	0.62	2	343-369(0.30) 428-451(0.62)
gnl UG Hs#S4283783	0.1	1	370-396(0.10)
gnl UG Hs#S1728987	3.01	3	642-667(0.20) 2503-2528(3.01) 2609-2635(0.58)
gnl UG Hs#S3219791	2.3	5	209-234(0.72) 291-317(1.01) 654-682(2.30) 790-815(0.98) 1080-1106(0.28)

gnl UG Hs#S1728494	0.82	1	389-412(0.82)
gnl UG Hs#S5978462	0.5	1	136-161(0.50)
gnl UG Hs#S3438431	0.48	1	7-32(0.48)
gnl UG Hs#S1731600	3.17	2	81-106(3.17) 196-221(0.30)
gnl UG Hs#S4284645	0.72	1	172-196(0.72)
gnl UG Hs#S1729484	4.31	3	105-128(4.31) 6253-6279(2.17) 8322-8348(0.31)
gnl UG Hs#S1969085	3.98	2	59-84(3.98) 3509-3534(1.40)
gnl UG Hs#S2140603	0.48	2	663-688(0.14) 818-846(0.48)
gnl UG Hs#S1730992	3.39	2	123-149(1.84) 172-197(3.39)
gnl UG Hs#S4825840	0.72	1	174-199(0.72)
gnl UG Hs#S1732225	0.69	3	18-45(0.69) 208-232(0.30) 244-269(0.04)
gnl UG Hs#S3543447	3.92	9	266-293(0.70) 368-393(1.30) 415-441(2.30) 447-472(1.07) 544-569(0.20) 685-713(1.17) 1313-1339(1.82) 1477-1503(3.92) 2095-2121(1.11)
gnl UG Hs#S2139033	1.23	2	332-356(0.07) 400-426(1.23)
gnl UG Hs#S1727592	2.04	1	514-539(2.04)
gnl UG Hs#S2294507	0.46	1	161-187(0.46)
gnl UG Hs#S10832570	1.86	2	1464-1490(1.86) 1913-1939(0.66)
gnl UG Hs#S1726960	1.79	5	133-158(1.79) 226-254(1.08) 337-363(0.37) 440-464(0.68) 790-814(0.25)
gnl UG Hs#S1732009	4.14	5	1493-1518(4.14) 1573-1598(0.98) 1847-1872(0.66) 3196-3222(1.69) 3731-3754(0.28)
gnl UG Hs#S15640507	3.08	3	721-746(0.74) 1587-1612(1.78) 1744-1769(3.08)
gnl UG Hs#S1731150	0.36	2	342-367(0.36) 758-783(0.36)
gnl UG Hs#S1824340	0.94	1	1816-1842(0.94)
gnl UG Hs#S1727589	0.98	1	146-171(0.98)
gnl UG Hs#S7112023	0.66	1	280-305(0.66)
gnl UG Hs#S3438738	1.27	3	513-539(1.27) 1314-1340(0.45) 1438-1463(1.02)
gnl UG Hs#S1729930	0.4	2	347-375(0.25) 967-993(0.40)
gnl UG Hs#S1731396	1.37	1	323-348(1.37)
gnl UG Hs#S4392264	1.41	5	2397-2422(0.98) 2684-2710(0.34) 3139-3164(0.81) 3795-3822(1.41) 3968-3993(0.44)
gnl UG Hs#S1731642	1.69	3	214-238(0.46) 736-761(1.69) 912-937(0.89)
gnl UG Hs#S1731317	2.62	1	399-427(2.62)
gnl UG Hs#S1730203	2.5	1	154-179(2.50)
gnl UG Hs#S3438717	2.89	5	1414-1439(2.89) 1471-1495(0.98) 2478-2504(0.33) 2526-2554(0.49) 3041-3067(0.50)
gnl UG Hs#S11046652	1.14	1	252-277(1.14)
gnl UG Hs#S5978532	0.85	2	206-232(0.69) 347-372(0.85)
gnl UG Hs#S2293509	0.97	1	136-161(0.97)
gnl UG Hs#S3619319	0.34	2	718-743(0.34) 1755-1781(0.20)
gnl UG Hs#S5978455	0.9	1	957-983(0.90)
gnl UG Hs#S1728793	1.79	4	442-468(0.40) 558-586(1.79) 897-922(0.07) 1163-1189(1.24)
gnl UG Hs#S3438724	0.72	1	540-565(0.72)
gnl UG Hs#S4811163	1.5	3	730-757(1.40) 1153-1181(1.40) 1208-1234(1.50)
gnl UG Hs#S1732251	3.88	5	109-134(1.30) 545-570(0.13) 858-883(2.56) 885-913(3.88) 919-944(0.08)
gnl UG Hs#S2138697	1.68	2	58-84(1.01) 204-229(1.68)
gnl UG Hs#S5978444	0.91	1	1935-1960(0.91)
gnl UG Hs#S4808094	1.46	1	205-230(1.46)
gnl UG Hs#S15846918	3.23	2	1362-1387(3.23) 1703-1729(0.98)
gnl UG Hs#S1731825	1.97	1	1417-1442(1.97)
gnl UG Hs#S1726594	2.33	10	1150-1175(0.53) 1183-1211(2.33) 1735-1760(1.94) 1975-2001(1.34) 2013-2039(1.34) 2454-2479(1.81) 2808-2833(0.05) 2886-2911(1.04) 3047-3072(1.72) 3093-3120(0.07)
gnl UG Hs#S2139233	2.72	2	80-105(2.72) 123-148(0.20)
gnl UG Hs#S5978853	1.65	1	809-834(1.65)
gnl UG Hs#S7110495	3.4	6	1164-1190(1.08) 1230-1255(0.46) 1418-1445(2.40) 1662-1687(3.40) 1753-1781(0.49) 2544-2567(2.95)
gnl UG Hs#S1727397	0.33	1	374-399(0.33)
gnl UG Hs#S2140400	5.57	1	243-269(5.57)
gnl UG Hs#S1731452	2.2	3	981-1009(2.20) 1812-1837(0.26) 2526-2551(0.01)
gnl UG Hs#S3619632	0.85	1	43-68(0.85)
gnl UG Hs#S5516785	1.24	3	144-172(0.62) 408-434(1.24) 1158-1183(0.50)

gnl UG Hs#S1729364	3.99	1 314-340(3.99)
gnl UG Hs#S1730059	1.1	3 621-646(0.83) 1447-1473(1.10) 1957-1984(0.62)
gnl UG Hs#S1969096	1.61	3 386-411(1.61) 962-987(1.61) 2895-2920(0.20)
gnl UG Hs#S15632338	0.59	1 398-424(0.59)
gnl UG Hs#S4812969	0.92	2 2357-2385(0.92) 2407-2432(0.50)
gnl UG Hs#S1729486	3.79	1 1516-1542(3.79)
gnl UG Hs#S4815292	1.76	2 129-154(1.76) 764-789(0.90)
gnl UG Hs#S1969154	3.42	1 1438-1464(3.42)
gnl UG Hs#S4623553	0.4	1 4-29(0.40)
gnl UG Hs#S4545749	1.94	5 596-622(1.79) 1258-1283(1.60) 1565-1591(1.26) 1702-1727(1.94) 2736-2761(0.01)
gnl UG Hs#S1729451	0.82	1 123-148(0.82)
gnl UG Hs#S2293722	4.21	3 149-174(4.21) 258-286(1.62) 611-638(1.97)
gnl UG Hs#S3438119	3.04	3 18-43(0.23) 622-647(3.04) 820-846(1.27)
gnl UG Hs#S2139299	1.3	1 223-248(1.30)
gnl UG Hs#S1731419	3.39	2 87-111(0.84) 310-335(3.39)
gnl UG Hs#S5860357	2.21	2 1578-1603(2.21) 1685-1710(0.81)
gnl UG Hs#S1726620	2.98	5 259-287(2.98) 457-482(0.76) 587-613(0.17) 1587-1613(0.76) 1840-1866(1.62)
gnl UG Hs#S15631509	2.15	3 135-158(0.17) 501-526(2.15) 643-668(0.98)
gnl UG Hs#S2139983	2.98	6 500-526(0.67) 940-968(2.98) 1165-1190(1.91) 1383-1409(1.27) 1763-1789(2.89) 2101-2128(0.46)
gnl UG Hs#S5931262	1.53	2 755-780(1.53) 876-901(0.65)
gnl UG Hs#S1731207	0.55	1 361-386(0.55)
gnl UG Hs#S3438847	2.23	1 235-261(2.23)
gnl UG Hs#S2651102	2.73	1 825-849(2.73)
gnl UG Hs#S998739	0.08	1 1682-1710(0.08)
gnl UG Hs#S4810163	3.37	1 195-221(3.37)
gnl UG Hs#S2293577	0.23	2 503-529(0.21) 774-802(0.23)
gnl UG Hs#S1727219	3.92	1 1733-1758(3.92)
gnl UG Hs#S2293354	2.01	1 1430-1457(2.01)
gnl UG Hs#S15635841	1.26	3 1502-1527(0.65) 2450-2475(0.98) 2518-2543(1.26)
gnl UG Hs#S4807929	1.49	1 231-256(1.49)
gnl UG Hs#S1732326	3.72	3 368-394(0.83) 664-689(0.30) 734-759(3.72)
gnl UG Hs#S2138791	0.01	1 307-332(0.01)
gnl UG Hs#S1729515	0.53	1 173-198(0.53)
gnl UG Hs#S1731330	1.44	1 396-422(1.44)
gnl UG Hs#S4001833	0.84	1 867-892(0.84)
gnl UG Hs#S1731350	3.2	5 246-271(2.20) 280-305(2.58) 468-494(2.18) 930-956(0.81) 1380-1405(3.20)
gnl UG Hs#S1732219	1.59	1 1403-1428(1.59)
gnl UG Hs#S3219674	1.53	1 840-868(1.53)
gnl UG Hs#S1727838	1.97	1 2120-2145(1.97)
gnl UG Hs#S1726654	1.3	1 3126-3151(1.30)
gnl UG Hs#S4817310	3.57	1 11-36(3.57)
gnl UG Hs#S14802366	1.21	2 271-296(0.72) 801-826(1.21)
gnl UG Hs#S2293201	1.57	4 409-433(0.20) 665-691(0.42) 779-804(1.57) 1218-1243(0.62)
gnl UG Hs#S15641288	1.94	2 995-1021(0.50) 1029-1055(1.94)
gnl UG Hs#S1728067	3.34	1 22-48(3.34)
gnl UG Hs#S2139288	0.21	1 511-536(0.21)
gnl UG Hs#S1731609	1.07	4 73-101(1.07) 254-279(0.20) 372-403(0.29) 494-519(0.30)
gnl UG Hs#S7110935	3.04	1 236-261(3.04)
gnl UG Hs#S3603138	2.56	1 148-173(2.56)
gnl UG Hs#S4819115	2.37	4 1279-1307(0.26) 1879-1904(1.88) 1960-1983(2.26) 2688-2716(2.37)
gnl UG Hs#S1730682	1.51	1 376-401(1.51)
gnl UG Hs#S2139611	2.91	6 217-241(0.04) 293-318(1.55) 911-935(0.26) 1431-1456(0.56) 1801-1826(2.91) 1983-2006(0.06)
gnl UG Hs#S1729646	3.19	1 296-323(3.19)
gnl UG Hs#S4046361	2.04	2 467-492(2.04) 1390-1417(0.40)

gnl UG Hs#S15636190	5.46	8	903-928(5.46) 945-968(0.87) 1235-1260(3.89) 1275-1298(2.31) 1311-1337(2.04) 1535-1560(0.30) 1592-1617(2.78) 1670-1698(0.20)
gnl UG Hs#S4807573	2.57	2	260-286(0.76) 304-329(2.57)
gnl UG Hs#S4813384	2.72	3	940-965(2.72) 1183-1209(0.08) 1241-1266(0.40)
gnl UG Hs#S15634875	3.62	9	531-556(0.04) 708-733(2.72) 878-903(3.62) 1175-1200(0.27) 1209-1237(0.62) 1532-1558(0.91) 1609-1634(0.71) 2286-2311(1.09) 2348-2374(1.30)
gnl UG Hs#S1728938	0.07	1	186-211(0.07)
gnl UG Hs#S3988049	2.11	7	458-483(0.26) 806-832(0.17) 2290-2318(2.03) 2491-2516(2.11) 3021-3048(0.90) 3093-3118(0.14) 3280-3306(0.37)
gnl UG Hs#S4841523	3.53	2	349-374(3.53) 754-779(0.30)
gnl UG Hs#S1728143	3.37	2	1186-1212(0.50) 1240-1265(3.37)
gnl UG Hs#S2139198	2.56	4	258-284(2.56) 639-665(1.40) 822-850(0.07) 1053-1078(0.72)
gnl UG Hs#S1731650	0.94	1	85-111(0.94)
gnl UG Hs#S1824514	3.3	2	66-92(3.30) 158-183(1.65)
gnl UG Hs#S4808390	1.55	2	156-181(1.55) 478-502(0.81)
gnl UG Hs#S1731516	3.04	2	221-247(1.23) 677-703(3.04)
gnl UG Hs#S3438185	2.04	1	627-652(2.04)
gnl UG Hs#S4554547	1.27	2	189-214(0.72) 585-613(1.27)
gnl UG Hs#S4807556	0.88	1	1313-1339(0.88)
gnl UG Hs#S3603819	3.04	6	191-217(0.04) 675-700(3.04) 923-951(0.13) 1285-1311(1.17) 1736-1761(0.90) 2737-2762(0.91)
gnl UG Hs#S7110581	2.76	2	413-438(1.17) 737-762(2.76)
gnl UG Hs#S1732210	1.23	1	1174-1200(1.23)
gnl UG Hs#S3601702	2.4	1	845-871(2.40)
gnl UG Hs#S5978615	2	2	1754-1778(2.00) 1871-1896(0.47)
gnl UG Hs#S4435349	0.15	1	1106-1129(0.15)
gnl UG Hs#S1727576	3.08	2	269-294(3.08) 424-449(0.14)
gnl UG Hs#S3817918	1.52	3	422-446(0.31) 481-508(0.84) 1623-1648(1.52)
gnl UG Hs#S4619720	0.98	1	554-579(0.98)
gnl UG Hs#S4824042	0.36	1	596-622(0.36)
gnl UG Hs#S1731143	2.13	1	662-686(2.13)
gnl UG Hs#S5978601	0.08	1	763-789(0.08)
gnl UG Hs#S1731149	0.56	1	256-284(0.56)
gnl UG Hs#S3619269	3.99	1	603-630(3.99)
gnl UG Hs#S1728037	2.39	4	290-315(1.07) 1147-1172(2.11) 1584-1607(2.39) 3495-3522(1.20)
gnl UG Hs#S1728992	1.08	1	141-166(1.08)
gnl UG Hs#S6693343	0.77	1	542-566(0.77)
gnl UG Hs#S4807968	1.07	5	56-81(0.04) 648-672(1.07) 810-838(0.98) 897-925(0.14) 1487-1512(0.59)
gnl UG Hs#S4631281	1.16	4	698-723(1.16) 807-832(0.21) 990-1015(0.58) 1371-1399(0.04)
gnl UG Hs#S4824558	1.25	1	243-271(1.25)
gnl UG Hs#S2140661	0.01	1	229-257(0.01)
gnl UG Hs#S15637307	1.49	5	235-261(0.94) 373-401(0.23) 716-741(1.49) 871-896(0.89) 903-930(0.63)
gnl UG Hs#S3814592	0.58	1	169-194(0.58)
gnl UG Hs#S4819893	0.4	1	14-42(0.40)
gnl UG Hs#S3542649	0.4	1	453-478(0.40)
gnl UG Hs#S3438985	2.55	2	316-341(0.20) 808-832(2.55)
gnl UG Hs#S10831967	0.04	1	708-733(0.04)
gnl UG Hs#S4807728	1.94	4	143-171(0.07) 336-364(1.94) 547-575(0.07) 576-602(0.04)
gnl UG Hs#S1726515	2.47	6	184-207(2.47) 282-308(1.27) 605-630(0.26) 791-816(1.08) 1397-1422(2.32) 1436-1461(1.84)
gnl UG Hs#S4392131	1.08	2	149-174(0.17) 1888-1913(1.08)
gnl UG Hs#S1726732	2.81	3	580-605(0.01) 824-852(2.81) 1586-1610(0.87)
gnl UG Hs#S1730464	0.69	2	1995-2021(0.69) 2161-2186(0.13)
gnl UG Hs#S4822383	0.79	2	255-280(0.79) 1463-1488(0.36)
gnl UG Hs#S4046408	2.46	3	1651-1676(2.46) 1716-1739(0.49) 1772-1798(1.43)
gnl UG Hs#S3438675	4.89	1	158-184(4.89)
gnl UG Hs#S3438442	1.98	3	408-436(0.52) 566-591(0.62) 1001-1026(1.98)
gnl UG Hs#S1726869	0.86	1	145-171(0.86)
gnl UG Hs#S1731748	2	2	560-585(2.00) 2056-2081(0.75)

gnl UG Hs#S14802406	1.07	1	365-390(1.07)
gnl UG Hs#S2139571	0.4	1	941-966(0.40)
gnl UG Hs#S3619625	0.3	1	601-624(0.30)
gnl UG Hs#S1263861	2.16	1	409-436(2.16)
gnl UG Hs#S7111570	6.84	1	363-391(6.84)
gnl UG Hs#S3218919	2.34	3	1032-1058(0.66) 1084-1110(1.82) 1297-1322(2.34)
gnl UG Hs#S1729396	2.89	2	53-78(0.08) 153-178(2.89)
gnl UG Hs#S1727409	0.33	1	87-112(0.33)
gnl UG Hs#S3438917	0.84	2	1412-1438(0.01) 1774-1799(0.84)
gnl UG Hs#S1726248	0.98	1	805-830(0.98)
gnl UG Hs#S3603168	0.17	1	681-707(0.17)
gnl UG Hs#S4826791	1.91	1	1375-1403(1.91)
gnl UG Hs#S7112247	1.04	1	1134-1160(1.04)
gnl UG Hs#S3993529	2.14	1	425-451(2.14)
gnl UG Hs#S3438404	0.11	1	1536-1561(0.11)
gnl UG Hs#S1728784	1.85	2	87-112(0.20) 142-166(1.85)
gnl UG Hs#S2140260	1.14	5	236-261(0.00) 589-612(0.36) 682-708(1.11) 1455-1480(0.46) 2506-2531(1.14)
gnl UG Hs#S3603009	3.62	2	1137-1165(0.79) 2250-2275(3.62)
gnl UG Hs#S2293544	0.76	1	264-290(0.76)
gnl UG Hs#S2139669	2.97	5	121-146(0.62) 161-186(2.15) 327-352(2.97) 576-602(0.90) 651-677(0.04)
gnl UG Hs#S4396002	1.26	4	1313-1338(0.14) 1445-1470(0.36) 1712-1737(0.30) 3104-3129(1.26)
gnl UG Hs#S4824051	4.34	6	726-752(0.98) 835-864(1.71) 1123-1149(4.34) 1379-1404(0.91) 1528-1553(0.17) 1686-1711(1.23)
gnl UG Hs#S4811625	3.33	2	1069-1095(3.33) 1558-1584(0.03)
gnl UG Hs#S1726353	1.77	1	116-141(1.77)
gnl UG Hs#S2293755	2.97	2	410-435(0.43) 571-596(2.97)
gnl UG Hs#S2140326	0.3	1	86-114(0.30)
gnl UG Hs#S2293640	0.5	1	324-349(0.50)
gnl UG Hs#S15638186	1.98	5	410-436(0.84) 567-592(1.98) 958-983(0.57) 1419-1445(1.40) 1491-1518(1.47)
gnl UG Hs#S4817833	1.17	1	862-888(1.17)
gnl UG Hs#S1727374	1.68	3	167-192(1.04) 938-962(1.68) 1894-1919(0.89)
gnl UG Hs#S1732061	2.55	1	552-580(2.55)
gnl UG Hs#S1726745	3.52	12	250-275(1.08) 410-435(3.15) 2795-2820(3.13) 2826-2851(2.30) 3423-3448(1.40) 3536-3561(3.52) 4399-4427(1.78) 4596-4622(0.88) 4856-4882(1.62) 5124-5150(0.53) 5182-5207(0.94) 5376-5401(0.08)
gnl UG Hs#S4812644	1.46	4	705-730(0.40) 885-913(0.92) 1797-1822(1.46) 1946-1972(0.82)
gnl UG Hs#S3438577	0.84	1	57-82(0.84)
gnl UG Hs#S15730336	0.72	3	413-439(0.72) 630-655(0.33) 659-685(0.38)
gnl UG Hs#S1729597	1.5	2	1265-1290(0.30) 1738-1766(1.50)
gnl UG Hs#S4284769	0.57	1	517-543(0.57)
gnl UG Hs#S1728220	3.84	1	132-160(3.84)
gnl UG Hs#S3438964	1.68	3	26-51(1.68) 558-583(1.40) 1033-1059(1.27)
gnl UG Hs#S14802699	0.26	1	115-141(0.26)
gnl UG Hs#S11046575	0.16	1	845-870(0.16)
gnl UG Hs#S1969174	2.15	11	330-356(1.17) 918-943(1.98) 964-989(1.21) 1513-1539(2.15) 1563-1589(1.08) 1722-1748(2.01) 2007-2036(0.84) 2135-2160(1.98) 2269-2295(0.50) 2446-2472(0.23) 2635-2660(0.08)
gnl UG Hs#S1728886	0.72	1	353-378(0.72)
gnl UG Hs#S2293374	0.3	1	1-26(0.30)
gnl UG Hs#S1726818	1.4	1	121-146(1.40)
gnl UG Hs#S4623566	2.94	1	7-32(2.94)
gnl UG Hs#S3219385	0.97	1	900-925(0.97)
gnl UG Hs#S2294545	1.38	2	233-259(1.38) 391-418(0.84)
gnl UG Hs#S2140113	0.66	1	883-909(0.66)
gnl UG Hs#S1726993	3.31	2	225-249(3.31) 296-320(2.11)
gnl UG Hs#S1824289	0.7	4	471-496(0.70) 734-759(0.55) 1818-1847(0.30) 2343-2369(0.43)
gnl UG Hs#S1728422	0.45	3	641-669(0.30) 1879-1904(0.33) 1913-1939(0.45)
gnl UG Hs#S3940084	1.46	2	390-415(1.46) 597-623(0.08)
gnl UG Hs#S15640431	1.81	1	176-204(1.81)

gnl UG Hs#S15637218	1.5	1 1264-1289(1.50)
gnl UG Hs#S3219201	0.76	1 12-38(0.76)
gnl UG Hs#S4631286	2.21	2 345-370(1.01) 602-627(2.21)
gnl UG Hs#S4619056	3.97	3 768-796(0.06) 1639-1664(0.17) 1838-1863(3.97)
gnl UG Hs#S2294091	3.2	2 255-280(3.20) 304-329(1.14)
gnl UG Hs#S2139200	4.62	4 172-197(4.62) 818-846(1.39) 878-904(2.08) 1479-1504(1.26)
gnl UG Hs#S2140477	0.17	2 579-605(0.17) 1141-1167(0.08)
gnl UG Hs#S15642181	0.51	1 31-55(0.51)
gnl UG Hs#S2293630	1.08	2 364-390(1.08) 753-778(0.14)
gnl UG Hs#S2293921	0.84	2 830-856(0.60) 925-950(0.84)
gnl UG Hs#S1728128	5.07	1 342-367(5.07)
gnl UG Hs#S10831882	0.62	1 248-275(0.62)
gnl UG Hs#S1726380	2.17	1 261-286(2.17)
gnl UG Hs#S2293522	0.17	1 1312-1337(0.17)
gnl UG Hs#S3219328	1.78	1 146-171(1.78)
gnl UG Hs#S14802410	2.41	3 488-513(2.41) 1255-1283(1.17) 1434-1459(0.14)
gnl UG Hs#S2139887	0.62	1 259-283(0.62)
gnl UG Hs#S4807669	0.53	2 75-100(0.07) 384-410(0.53)
gnl UG Hs#S1731196	1.94	2 384-409(1.94) 1040-1067(0.97)
gnl UG Hs#S4620242	1.02	1 1270-1296(1.02)
gnl UG Hs#S1726739	0.43	1 559-585(0.43)
gnl UG Hs#S1726371	0.4	1 608-633(0.40)
gnl UG Hs#S4554436	0.87	1 1404-1429(0.87)
gnl UG Hs#S6693335	1.11	2 243-268(1.11) 286-312(0.50)
gnl UG Hs#S2332286	1.78	2 249-274(1.04) 2193-2220(1.78)
gnl UG Hs#S1727073	1.57	1 139-164(1.57)
gnl UG Hs#S3219115	1.72	2 244-269(1.72) 271-299(0.66)
gnl UG Hs#S2294221	0.72	2 54-79(0.40) 566-589(0.72)
gnl UG Hs#S3547241	2.66	6 465-491(2.66) 648-672(0.31) 1009-1034(0.52) 1177-1202(0.11) 1223-1248(0.33) 1464-1492(1.91)
gnl UG Hs#S1727932	1.2	2 343-368(0.57) 765-791(1.20)
gnl UG Hs#S10832170	0.17	1 523-548(0.17)
gnl UG Hs#S1727868	2.34	3 792-816(1.30) 950-976(2.34) 1865-1892(1.23)
gnl UG Hs#S2293815	0.98	1 76-101(0.98)
gnl UG Hs#S2294433	1.62	1 1015-1040(1.62)
gnl UG Hs#S3355493	1.34	1 152-177(1.34)
gnl UG Hs#S2139606	0.98	3 80-103(0.91) 224-252(0.98) 442-467(0.40)
gnl UG Hs#S1729431	0.08	2 117-144(0.08) 339-363(0.08)
gnl UG Hs#S10832559	1.67	1 1329-1355(1.67)
gnl UG Hs#S3438649	0.34	1 120-148(0.34)
gnl UG Hs#S14812302	0.21	1 2172-2197(0.21)
gnl UG Hs#S3619627	1.86	2 126-152(0.27) 696-722(1.86)
gnl UG Hs#S4807813	3.3	3 545-570(3.30) 607-631(0.43) 834-859(0.25)
gnl UG Hs#S2140335	2.4	3 295-321(1.08) 1285-1317(0.56) 1382-1408(2.40)
gnl UG Hs#S3601742	1.43	7 2949-2972(1.21) 3022-3048(1.30) 3074-3099(0.20) 3744-3769(1.23) 3819-3845(1.43) 3897-3922(0.40) 4042-4067(0.88)
gnl UG Hs#S5978459	1.91	1 873-898(1.91)
gnl UG Hs#S10832610	1.5	4 860-886(0.76) 888-916(0.81) 956-980(0.14) 1418-1444(1.50)
gnl UG Hs#S1728627	0.4	1 798-823(0.40)
gnl UG Hs#S1728134	0.3	2 32-57(0.30) 1120-1145(0.21)
gnl UG Hs#S2140711	1.4	1 2330-2355(1.40)
gnl UG Hs#S1729666	0.52	1 385-410(0.52)
gnl UG Hs#S4046156	1.07	1 226-251(1.07)
gnl UG Hs#S4285253	0.89	2 252-275(0.89) 287-312(0.24)
gnl UG Hs#S1728196	0.2	2 294-319(0.20) 410-438(0.20)
gnl UG Hs#S1729112	1.34	1 504-529(1.34)

gnl UG Hs#S4284729	1.23	1 340-366(1.23)
gnl UG Hs#S3547216	1.41	3 1888-1911(0.46) 2442-2468(1.41) 2497-2523(0.11)
gnl UG Hs#S2139091	0.8	1 272-299(0.80)
gnl UG Hs#S1729964	0.36	1 370-395(0.36)
gnl UG Hs#S3218968	2.79	2 3831-3856(2.79) 4145-4171(0.91)
gnl UG Hs#S5517785	2.52	4 46-71(0.41) 516-539(1.40) 621-646(2.52) 735-761(0.51)
gnl UG Hs#S3619215	4.04	3 172-197(4.04) 229-254(0.26) 324-349(2.30)
gnl UG Hs#S1726939	2.72	3 1091-1116(2.72) 2325-2350(0.33) 2619-2647(0.17)
gnl UG Hs#S4553449	3.3	4 738-763(1.39) 968-993(3.30) 2274-2300(0.62) 2433-2460(0.17)
gnl UG Hs#S1730397	2.9	1 412-438(2.90)
gnl UG Hs#S1727015	0.81	3 419-446(0.81) 566-591(0.36) 622-647(0.40)
gnl UG Hs#S1732141	0.53	1 1088-1116(0.53)
gnl UG Hs#S1824264	0.98	2 280-305(0.53) 413-439(0.98)
gnl UG Hs#S1727178	0.94	1 918-943(0.94)
gnl UG Hs#S1729637	4.43	3 608-633(2.32) 717-742(4.43) 1063-1088(0.89)
gnl UG Hs#S5860318	0.07	1 303-328(0.07)
gnl UG Hs#S3973044	1.72	2 454-480(1.72) 981-1006(1.30)
gnl UG Hs#S1971570	3.58	3 1338-1363(1.39) 2117-2142(0.53) 2217-2242(3.58)
gnl UG Hs#S4616337	4.62	5 142-168(2.90) 987-1010(4.11) 1053-1080(0.69) 1270-1295(4.62) 1556-1583(0.32)
gnl UG Hs#S5978584	1.53	3 501-527(1.04) 536-561(1.53) 602-626(0.87)
gnl UG Hs#S1729317	2.62	1 116-141(2.62)
gnl UG Hs#S3219541	0.62	3 5-31(0.07) 36-61(0.62) 623-650(0.12)
gnl UG Hs#S1727163	1.3	2 14-42(1.30) 555-580(1.24)
gnl UG Hs#S1727010	4.21	3 211-238(0.24) 312-338(0.12) 409-434(4.21)
gnl UG Hs#S2139386	2.72	4 355-381(0.08) 581-606(0.21) 1151-1179(2.72) 1467-1492(1.20)
gnl UG Hs#S1731372	0.56	2 296-323(0.47) 405-432(0.56)
gnl UG Hs#S15633212	0.77	1 311-336(0.77)
gnl UG Hs#S11046747	0.27	2 12-38(0.26) 54-79(0.27)
gnl UG Hs#S2140085	7.11	4 644-672(3.75) 824-849(7.11) 946-974(2.36) 915-940(0.62)
gnl UG Hs#S2139045	2.15	4 231-256(0.40) 315-341(0.23) 343-368(2.15) 833-858(0.24)
gnl UG Hs#S2293580	0.71	1 862-890(0.71)
gnl UG Hs#S1726387	1.71	3 340-368(1.71) 400-425(1.26) 546-571(1.48)
gnl UG Hs#S15631727	1.1	3 110-135(0.40) 543-567(1.10) 1075-1100(0.65)
gnl UG Hs#S4283574	1.14	1 1564-1587(1.14)
gnl UG Hs#S15115731	2.54	1 257-283(2.54)
gnl UG Hs#S4806532	0.26	1 75-100(0.26)
gnl UG Hs#S2139642	3.91	8 114-142(1.30) 977-1002(1.82) 2123-2149(1.04) 2219-2244(1.07) 2247-2273(1.50) 2684-2712(0.62) 3185-3210(3.91) 3359-3385(2.37)
gnl UG Hs#S3219126	0.23	2 949-975(0.21) 1064-1092(0.23)
gnl UG Hs#S1727120	4.04	2 19-47(0.88) 77-102(4.04)
gnl UG Hs#S4808300	3.39	4 15-41(2.66) 94-120(0.90) 528-554(1.01) 573-597(3.39)
gnl UG Hs#S3973012	2.72	1 1289-1314(2.72)
gnl UG Hs#S1731181	1.5	1 151-177(1.50)
gnl UG Hs#S1726765	0.98	4 2159-2184(0.13) 2918-2946(0.21) 3055-3082(0.40) 3140-3165(0.98)
gnl UG Hs#S6091962	0.08	1 232-257(0.08)
gnl UG Hs#S4545989	0.46	1 367-394(0.46)
gnl UG Hs#S2139445	1.98	1 1132-1157(1.98)
gnl UG Hs#S11046546	1.43	3 1725-1750(0.37) 2585-2611(0.76) 2940-2967(1.43)
gnl UG Hs#S2651896	1.5	1 138-164(1.50)
gnl UG Hs#S1729819	5.55	1 237-262(5.55)
gnl UG Hs#S1731256	1.81	1 1261-1289(1.81)
gnl UG Hs#S15632341	0.01	1 476-502(0.01)
gnl UG Hs#S4806257	1.14	1 1259-1285(1.14)
gnl UG Hs#S2139224	0.56	1 240-263(0.56)
gnl UG Hs#S2140174	1.63	1 201-226(1.63)

gnl UG Hs#S4807703	4.08	1 998-1026(4.08)
gnl UG Hs#S7110922	1.39	1 108-134(1.39)
gnl UG Hs#S4810798	2.53	5 335-360(1.72) 497-522(2.53) 609-634(0.53) 698-724(1.23) 783-808(0.23)
gnl UG Hs#S4807802	0.72	1 493-518(0.72)
gnl UG Hs#S1732369	0.69	1 222-249(0.69)
gnl UG Hs#S15644371	3.62	9 8-32(0.84) 1369-1394(0.08) 1461-1486(0.50) 1521-1547(0.34) 1604-1632(3.62) 1635-1660(1.40) 1719-1744(1.30) 1821-1846(0.79) 1952-1979(0.07)
gnl UG Hs#S1728893	1.23	2 53-79(0.40) 743-768(1.23)
gnl UG Hs#S5931232	2.57	1 948-973(2.57)
gnl UG Hs#S1731422	0.4	1 2338-2363(0.40)
gnl UG Hs#S1727126	1.57	3 119-142(1.57) 220-248(0.40) 515-540(0.30)
gnl UG Hs#S1729723	2.53	4 128-153(0.26) 250-275(2.53) 336-361(1.53) 369-394(0.63)
gnl UG Hs#S2139196	3.83	4 197-224(3.83) 352-377(1.87) 780-805(1.40) 865-890(2.79)
gnl UG Hs#S2138775	0.69	1 353-376(0.69)
gnl UG Hs#S4631498	0.94	2 1064-1089(0.94) 1647-1672(0.43)
gnl UG Hs#S14813081	1.88	1 87-113(1.88)
gnl UG Hs#S1729582	3.4	4 26-52(3.40) 226-252(1.01) 671-697(0.88) 736-762(1.47)
gnl UG Hs#S998782	1.55	1 1059-1084(1.55)
gnl UG Hs#S3219543	0.5	1 6-32(0.50)
gnl UG Hs#S1730148	0.79	1 640-666(0.79)
gnl UG Hs#S2294416	1.4	1 400-425(1.40)
gnl UG Hs#S2139042	0.49	3 1075-1100(0.49) 1769-1797(0.04) 1859-1884(0.04)
gnl UG Hs#S1731495	1.01	1 138-164(1.01)
gnl UG Hs#S2293407	2.98	4 80-108(2.55) 451-476(2.62) 739-764(2.98) 902-928(0.39)
gnl UG Hs#S2139645	1.34	1 1918-1945(1.34)
gnl UG Hs#S4810492	0.46	1 135-160(0.46)
gnl UG Hs#S3619558	4.72	2 326-351(0.51) 734-759(4.72)
gnl UG Hs#S1729113	1.01	2 207-235(1.01) 248-273(0.84)
gnl UG Hs#S1728941	1.5	1 15-41(1.50)
gnl UG Hs#S7110010	1.84	5 1251-1277(1.08) 1642-1668(1.84) 1909-1934(0.01) 2022-2048(0.57) 2164-2189(0.62)
gnl UG Hs#S2139985	1.08	1 505-530(1.08)
gnl UG Hs#S1729206	2.53	1 432-460(2.53)
gnl UG Hs#S5931251	2.3	6 57-80(0.06) 97-120(1.62) 123-149(0.33) 734-760(1.75) 968-993(0.14) 1174-1203(2.30)
gnl UG Hs#S4435935	0.46	1 1251-1276(0.46)
gnl UG Hs#S3603154	2.79	4 304-331(0.94) 460-485(2.79) 1221-1246(0.55) 1252-1278(1.01)
gnl UG Hs#S2139097	3.13	4 172-197(0.46) 213-238(3.13) 271-300(0.17) 311-336(1.04)
gnl UG Hs#S4553522	1.45	2 98-126(1.45) 1426-1454(1.04)
gnl UG Hs#S2139409	0.62	1 196-221(0.62)
gnl UG Hs#S4824556	2.43	5 364-390(0.17) 2170-2196(0.58) 2576-2601(0.13) 3265-3291(2.43) 4815-4840(1.01)
gnl UG Hs#S4284709	1.53	1 854-879(1.53)
gnl UG Hs#S1824365	1.34	1 109-134(1.34)
gnl UG Hs#S1728092	0.5	1 535-561(0.50)
gnl UG Hs#S15633680	0.49	1 108-136(0.49)
gnl UG Hs#S2294527	3.58	2 611-637(3.58) 3271-3299(1.04)
gnl UG Hs#S1727578	0.3	1 1317-1342(0.30)
gnl UG Hs#S3619562	1.98	4 35-63(0.47) 355-380(1.66) 526-551(1.98) 773-798(1.80)
gnl UG Hs#S4545912	1.72	2 68-93(0.04) 565-591(1.72)
gnl UG Hs#S3355648	0.66	1 119-144(0.66)
gnl UG Hs#S3826041	5.43	8 225-250(1.30) 342-367(0.94) 2810-2835(0.39) 2980-3008(0.10) 3146-3171(0.65) 3201-3228(0.52) 3445-3470(5.43) 4084-4109(3.36)
gnl UG Hs#S15643298	3.4	1 1833-1858(3.40)
gnl UG Hs#S3438682	1.17	2 30-58(0.30) 477-501(1.17)
gnl UG Hs#S12743855	0.3	1 1093-1118(0.30)
gnl UG Hs#S4821087	1.94	2 89-115(1.94) 588-614(1.10)
gnl UG Hs#S3987764	2.52	4 92-116(0.20) 1888-1913(2.52) 2679-2703(0.20) 3857-3886(0.24)
gnl UG Hs#S1730049	0.27	1 293-319(0.27)

gnl UG Hs#S3219943	0.62	1 499-525(0.62)
gnl UG Hs#S1730922	1.84	4 669-695(1.84) 1192-1217(0.62) 1772-1796(0.07) 1998-2023(0.91)
gnl UG Hs#S4831023	2.07	1 198-223(2.07)
gnl UG Hs#S3322102	0.26	1 1419-1444(0.26)
gnl UG Hs#S2139214	0.52	2 729-754(0.07) 1173-1201(0.52)
gnl UG Hs#S2139945	3.87	1 147-173(3.87)
gnl UG Hs#S3219093	1.2	3 60-87(0.84) 213-239(1.20) 429-454(0.53)
gnl UG Hs#S4284388	1.84	6 1052-1078(1.30) 1223-1248(0.77) 1709-1734(0.65) 2444-2469(0.01) 2478-2504(1.84) 2515-2540(0.18)
gnl UG Hs#S2138762	2.62	5 172-198(2.62) 587-612(2.17) 558-583(1.20) 631-656(0.21) 700-726(0.05)
gnl UG Hs#S14812706	0.59	1 408-434(0.59)
gnl UG Hs#S15730228	4.53	2 1167-1192(1.07) 2235-2262(4.53)
gnl UG Hs#S1727970	2.68	2 47-72(2.68) 238-263(0.72)
gnl UG Hs#S2139574	3.49	1 81-108(3.49)
gnl UG Hs#S2294317	1.95	1 96-122(1.95)
gnl UG Hs#S7111331	1.5	3 220-246(1.50) 647-672(0.06) 1145-1171(0.01)
gnl UG Hs#S5517151	2.49	2 54-79(1.17) 204-229(2.49)
gnl UG Hs#S1969041	2.62	5 147-172(1.14) 1604-1629(0.81) 1788-1811(0.40) 3906-3931(2.62) 4325-4350(2.33)
gnl UG Hs#S4046055	0.07	1 394-422(0.07)
gnl UG Hs#S1730945	0.51	2 410-440(0.51) 598-623(0.28)
gnl UG Hs#S2139015	2.89	1 48-73(2.89)
gnl UG Hs#S15644801	0.46	1 34-59(0.46)
gnl UG Hs#S1728011	2.17	2 73-101(0.09) 289-315(2.17)
gnl UG Hs#S1730410	0.08	1 800-828(0.08)
gnl UG Hs#S2293828	0.18	1 57-85(0.18)
gnl UG Hs#S2140634	0.37	1 935-958(0.37)
gnl UG Hs#S4807640	2.3	7 298-324(0.54) 747-772(0.76) 889-914(0.55) 966-991(2.30) 1410-1434(0.04) 2098-2124(0.58) 2928-2953(1.62)
gnl UG Hs#S4046139	1.53	1 11-36(1.53)
gnl UG Hs#S2294220	1.45	6 273-300(0.48) 337-365(1.45) 411-437(0.30) 662-687(0.69) 1071-1097(1.13) 1176-1201(0.51)
gnl UG Hs#S1727309	0.72	1 106-132(0.72)
gnl UG Hs#S3542807	2.65	4 137-162(0.04) 196-222(2.65) 673-701(0.08) 898-926(1.62)
gnl UG Hs#S2139072	3.36	1 498-523(3.36)
gnl UG Hs#S15631502	0.98	2 451-477(0.98) 595-620(0.47)
gnl UG Hs#S3603022	0.04	2 880-903(0.04) 1258-1283(0.01)
gnl UG Hs#S6159014	1.57	1 1052-1078(1.57)
gnl UG Hs#S2293820	1.39	2 1202-1227(0.07) 1286-1313(1.39)
gnl UG Hs#S4435645	1.62	3 43-68(0.62) 109-134(0.75) 151-178(1.62)
gnl UG Hs#S14272718	1.67	2 383-408(1.67) 810-836(0.43)
gnl UG Hs#S2293569	0.75	3 31-57(0.75) 507-534(0.43) 781-807(0.28)
gnl UG Hs#S2139446	0.33	2 365-395(0.16) 2567-2592(0.33)
gnl UG Hs#S3988011	0.89	2 92-117(0.20) 423-446(0.89)
gnl UG Hs#S4396126	0.46	1 397-422(0.46)
gnl UG Hs#S2329474	2.08	1 905-931(2.08)
gnl UG Hs#S4837530	0.94	2 570-598(0.94) 761-787(0.43)
gnl UG Hs#S3601713	3.39	3 764-790(0.14) 1024-1049(3.39) 1481-1505(0.31)
gnl UG Hs#S10831626	1.13	1 300-325(1.13)
gnl UG Hs#S1728878	2.11	1 448-474(2.11)
gnl UG Hs#S2140379	1.72	1 388-412(1.72)
gnl UG Hs#S3218956	2.08	2 12-42(0.67) 740-766(2.08)
gnl UG Hs#S3989762	0.65	1 1776-1801(0.65)
gnl UG Hs#S1730647	2.85	6 66-94(0.84) 160-183(0.50) 492-517(1.82) 678-704(2.85) 932-957(0.56) 1030-1055(0.13)
gnl UG Hs#S5979253	0.62	2 353-378(0.59) 519-544(0.62)
gnl UG Hs#S2138989	1.08	2 3739-3764(1.08) 3876-3904(1.08)
gnl UG Hs#S1728826	1.46	1 581-606(1.46)
gnl UG Hs#S3619167	1.33	1 636-661(1.33)

gnl UG Hs#S4545904	0.26	1	2202-2227(0.26)
gnl UG Hs#S3547219	3.25	5	632-657(0.79) 744-767(3.25) 1305-1331(1.30) 2512-2540(0.76) 8709-8733(0.26)
gnl UG Hs#S3438510	4.72	1	41-66(4.72)
gnl UG Hs#S1731209	3	3	1070-1094(1.03) 1291-1316(3.00) 4182-4207(1.72)
gnl UG Hs#S1731813	0.4	1	449-474(0.40)
gnl UG Hs#S1729949	0.53	1	539-564(0.53)
gnl UG Hs#S1727001	2.24	1	584-609(2.24)
gnl UG Hs#S1726257	3.59	3	904-932(3.59) 1115-1140(0.32) 1305-1333(2.65)
gnl UG Hs#S1569566	1.26	6	132-155(0.17) 313-339(1.04) 349-374(1.16) 934-959(0.88) 988-1013(1.26) 1630-1658(0.49)
gnl UG Hs#S1726432	0.28	1	667-692(0.28)
gnl UG Hs#S3439162	0.9	1	3065-3090(0.90)
gnl UG Hs#S3335070	1.34	1	233-259(1.34)
gnl UG Hs#S3973048	0.13	1	1205-1232(0.13)
gnl UG Hs#S1728135	2.07	3	305-331(0.72) 863-888(0.18) 1012-1037(2.07)
gnl UG Hs#S4828839	2.35	3	1393-1419(1.40) 1878-1909(2.35) 2157-2183(0.08)
gnl UG Hs#S4435872	0.07	1	1016-1043(0.07)
gnl UG Hs#S4807769	2.62	1	738-766(2.62)
gnl UG Hs#S14272934	0.74	1	127-152(0.74)
gnl UG Hs#S1731158	4.04	4	25-50(3.72) 317-340(4.02) 503-528(4.04) 761-786(1.17)
gnl UG Hs#S3219330	1.76	5	208-233(0.01) 1771-1799(1.76) 2377-2402(0.72) 2567-2591(0.07) 2640-2665(0.59)
gnl UG Hs#S1824462	0.85	2	193-222(0.85) 301-329(0.59)
gnl UG Hs#S1971583	3.98	2	1306-1331(1.08) 1550-1575(3.98)
gnl UG Hs#S2140088	0.69	3	1159-1184(0.59) 1907-1933(0.69) 2185-2211(0.56)
gnl UG Hs#S3219290	1.78	2	1347-1375(1.66) 1731-1756(1.78)
gnl UG Hs#S3219889	1.2	1	896-921(1.20)
gnl UG Hs#S14273039	0.1	1	260-286(0.10)
gnl UG Hs#S1727444	1.58	3	188-211(0.47) 300-326(0.17) 435-463(1.58)
gnl UG Hs#S2293204	3.24	3	406-432(2.62) 811-837(3.24) 841-867(2.60)
gnl UG Hs#S7110568	2.68	1	387-412(2.68)
gnl UG Hs#S1732130	1.21	1	155-180(1.21)
gnl UG Hs#S3438848	3.82	4	162-186(1.29) 279-307(2.98) 855-882(1.36) 1297-1323(3.82)
gnl UG Hs#S3438336	6.4	1	234-260(6.40)
gnl UG Hs#S3972968	0.84	1	277-302(0.84)
gnl UG Hs#S5978590	1.6	1	31-57(1.60)
gnl UG Hs#S4046345	0.81	1	72-97(0.81)
gnl UG Hs#S2139878	0.53	3	93-118(0.53) 423-447(0.34) 468-493(0.39)
gnl UG Hs#S1731510	1.69	2	1196-1221(1.24) 1454-1480(1.69)
gnl UG Hs#S1731513	1.26	1	191-216(1.26)
gnl UG Hs#S4807753	2.04	1	928-956(2.04)
gnl UG Hs#S15643304	0.08	2	455-483(0.08) 553-579(0.08)
gnl UG Hs#S2294608	2.52	1	2766-2794(2.52)
gnl UG Hs#S2139246	0.56	1	108-133(0.56)
gnl UG Hs#S3619624	1.83	1	97-124(1.83)
gnl UG Hs#S3619231	0.2	2	782-808(0.20) 1088-1113(0.07)
gnl UG Hs#S3988036	0.8	2	118-146(0.40) 615-639(0.80)
gnl UG Hs#S1638042	1.91	2	15-44(0.31) 955-980(1.91)
gnl UG Hs#S1729539	0.46	3	341-366(0.21) 383-408(0.17) 766-791(0.46)
gnl UG Hs#S1824329	5.72	3	842-867(1.48) 1167-1192(0.56) 1235-1260(5.72)
gnl UG Hs#S4813330	1.82	1	835-861(1.82)
gnl UG Hs#S2139424	2.94	2	430-455(2.94) 537-562(0.71)
gnl UG Hs#S1726529	2.11	2	336-359(0.69) 434-457(2.11)
gnl UG Hs#S15640501	0.81	1	307-332(0.81)
gnl UG Hs#S3619173	0.07	1	788-813(0.07)
gnl UG Hs#S6159089	2.23	3	408-434(0.60) 1376-1401(2.23) 1411-1436(1.08)

gnl UG Hs#S2293547	3.56	4	203-228(1.07) 925-953(0.71) 1031-1055(3.56) 1605-1630(1.85)
gnl UG Hs#S3814677	0.4	1	76-104(0.40)
gnl UG Hs#S4810669	1.43	2	1437-1463(1.43) 1732-1755(1.26)
gnl UG Hs#S1730224	4.11	1	155-182(4.11)
gnl UG Hs#S4631188	2.9	9	449-475(0.40) 488-513(2.90) 764-792(1.56) 892-917(1.13) 1343-1368(0.26) 1478-1504(0.14) 1657-1684(2.07) 2035-2061(0.44) 2495-2521(1.47)
gnl UG Hs#S1727928	1.06	2	294-318(1.06) 319-344(0.98)
gnl UG Hs#S3837782	3.11	4	472-498(1.23) 549-573(0.55) 696-721(1.29) 802-827(3.11)
gnl UG Hs#S2138917	0.86	1	242-268(0.86)
gnl UG Hs#S4631449	4.36	6	116-144(0.98) 334-359(0.72) 502-528(1.07) 1117-1142(0.08) 1260-1285(0.26) 1298-1323(4.36)
gnl UG Hs#S4820107	3.46	3	47-72(0.56) 141-166(3.46) 422-447(0.22)
gnl UG Hs#S2139129	0.82	2	245-271(0.82) 468-493(0.40)
gnl UG Hs#S1726781	0.61	1	586-614(0.61)
gnl UG Hs#S1727593	5.36	4	262-287(5.36) 841-868(0.92) 1243-1268(0.16) 1680-1705(0.46)
gnl UG Hs#S2293355	3.46	1	843-869(3.46)
gnl UG Hs#S3602313	0.91	2	154-180(0.89) 305-331(0.91)
gnl UG Hs#S4811476	0.08	1	109-134(0.08)
gnl UG Hs#S15636111	2.62	3	444-469(0.20) 794-817(2.62) 982-1007(0.87)
gnl UG Hs#S1824369	3.85	4	299-325(3.56) 562-587(3.85) 863-891(1.20) 952-977(3.72)
gnl UG Hs#S1728048	2.04	2	956-982(2.04) 1134-1158(1.40)
gnl UG Hs#S4819147	0.52	1	848-875(0.52)
gnl UG Hs#S3439013	2.82	1	1495-1520(2.82)
gnl UG Hs#S3438582	0.04	1	466-491(0.04)
gnl UG Hs#S4631384	0.81	2	171-196(0.26) 264-292(0.81)
gnl UG Hs#S1731259	0.2	1	582-607(0.20)
gnl UG Hs#S2293590	4.11	2	114-139(4.11) 480-506(0.44)
gnl UG Hs#S3439063	2.1	2	37-63(2.10) 110-136(0.11)
gnl UG Hs#S2293793	3.4	7	622-645(0.67) 1041-1066(0.97) 1143-1171(3.40) 1301-1329(0.90) 1680-1705(0.89) 1999-2025(0.36) 2302-2327(1.73)
gnl UG Hs#S1726547	1.78	1	221-246(1.78)
gnl UG Hs#S7111144	2.17	5	1189-1215(1.18) 1805-1833(1.09) 1871-1896(1.59) 1909-1935(2.17) 1967-1993(1.08)
gnl UG Hs#S5978533	0.1	1	1516-1542(0.10)
gnl UG Hs#S4284755	0.16	1	439-467(0.16)
gnl UG Hs#S1824551	0.58	1	83-109(0.58)
gnl UG Hs#S3973106	0.43	3	361-386(0.17) 991-1018(0.43) 1092-1116(0.12)
gnl UG Hs#S2140609	3.15	1	429-454(3.15)
gnl UG Hs#S4828802	2.15	3	951-976(0.53) 3252-3278(2.15) 4285-4313(0.44)
gnl UG Hs#S4807967	1.72	3	91-116(1.72) 745-770(0.55) 879-904(0.70)
gnl UG Hs#S4809985	1.75	4	791-816(1.17) 1748-1774(1.30) 1873-1899(1.75) 2062-2090(0.23)
gnl UG Hs#S2139765	2.3	5	60-88(1.17) 355-380(0.98) 653-677(0.85) 1283-1309(0.76) 1371-1394(2.30)
gnl UG Hs#S15631498	0.62	1	2533-2558(0.62)
gnl UG Hs#S1730153	0.72	4	355-378(0.47) 1825-1851(0.72) 1975-2003(0.23) 2043-2068(0.72)
gnl UG Hs#S1728081	0.75	1	568-596(0.75)
gnl UG Hs#S1729225	0.72	1	266-291(0.72)
gnl UG Hs#S3219753	2.94	2	420-448(2.94) 1360-1384(0.82)
gnl UG Hs#S3988008	0.34	1	237-262(0.34)
gnl UG Hs#S1728628	2.04	2	144-169(2.04) 405-431(1.37)
gnl UG Hs#S4616835	0.39	1	1381-1410(0.39)
gnl UG Hs#S4392129	1.3	1	412-437(1.30)
gnl UG Hs#S4827234	1.72	1	559-584(1.72)
gnl UG Hs#S5931263	5.39	10	135-160(1.57) 479-506(2.75) 568-593(0.04) 767-793(1.23) 858-883(5.39) 1096-1121(3.92) 1257-1282(0.91) 1634-1660(0.12) 1836-1861(1.50) 2189-2217(0.20)
gnl UG Hs#S2293714	1.08	3	512-537(1.07) 2105-2134(1.08) 2178-2203(0.72)
gnl UG Hs#S14913552	4.31	1	168-194(4.31)
gnl UG Hs#S3220009	0.82	2	525-551(0.82) 671-697(0.40)
gnl UG Hs#S4630968	1.04	1	2679-2704(1.04)
gnl UG Hs#S6682888	1.98	1	183-208(1.98)

gnl UG Hs#S4819386	5.3	5	922-948(0.81)	1245-1270(2.98)	1518-1544(5.30)	1600-1625(2.05)	1645-1670(1.17)
gnl UG Hs#S3619086	3.4	1	1213-1238(3.40)				
gnl UG Hs#S1728783	2.92	1	54-80(2.92)				
gnl UG Hs#S3438740	0.84	2	364-389(0.84)	475-500(0.46)			
gnl UG Hs#S2293951	0.18	1	34-58(0.18)				
gnl UG Hs#S2293328	2.77	1	602-629(2.77)				
gnl UG Hs#S2139476	3.04	4	226-251(1.30)	1518-1543(1.30)	1612-1638(3.04)	2731-2756(0.17)	
gnl UG Hs#S4616450	4.11	7	992-1020(0.23)	1263-1289(1.30)	1495-1520(1.68)	1661-1686(1.26)	1713-1739(0.40) 2389-2415(4.11) 2694-2719(2.78)
gnl UG Hs#S7111789	1.03	1	260-285(1.03)				
gnl UG Hs#S4822343	4.85	2	394-419(4.85)	614-640(0.27)			
gnl UG Hs#S1726570	0.72	1	128-155(0.72)				
gnl UG Hs#S3973082	1.39	2	1580-1606(1.27)	2327-2352(1.39)			
gnl UG Hs#S1729291	0.52	2	37-63(0.23)	1161-1186(0.52)			
gnl UG Hs#S1727506	3.94	1	277-302(3.94)				
gnl UG Hs#S7111202	2.47	1	456-481(2.47)				
gnl UG Hs#S1731353	3.3	4	458-483(1.62)	872-898(0.91)	915-940(3.30)	1095-1120(0.46)	
gnl UG Hs#S1726632	0.08	1	115-140(0.08)				
gnl UG Hs#S4809373	2.6	2	188-211(0.65)	389-415(2.60)			
gnl UG Hs#S1729630	2.9	2	347-372(2.90)	393-418(0.35)			
gnl UG Hs#S2293498	2.94	2	533-562(2.94)	913-938(0.40)			
gnl UG Hs#S4631000	3.11	2	420-445(0.65)	591-616(3.11)			
gnl UG Hs#S1731048	1	2	161-189(0.91)	715-740(1.00)			
gnl UG Hs#S1824352	0.68	1	3506-3531(0.68)				
gnl UG Hs#S15730304	1.27	2	171-199(1.27)	572-596(0.65)			
gnl UG Hs#S2139207	2.68	7	88-113(0.91)	216-241(2.68)	1727-1753(1.33)	2111-2134(0.85)	2147-2172(1.40) 2217-2242(0.21) 2276-2304(1.81)
gnl UG Hs#S15643962	3.4	3	588-613(0.30)	1074-1099(3.40)	1290-1315(3.30)		
gnl UG Hs#S3817913	0.93	1	34-60(0.93)				
gnl UG Hs#S4553426	1.91	2	115-142(1.91)	433-457(0.75)			
gnl UG Hs#S7111731	2.19	1	330-355(2.19)				
gnl UG Hs#S15638662	0.08	1	848-874(0.08)				
gnl UG Hs#S4813540	2.17	1	1199-1225(2.17)				
gnl UG Hs#S11046650	1.17	2	613-636(0.57)	873-898(1.17)			
gnl UG Hs#S2294045	0.72	3	89-115(0.67)	743-771(0.01)	1617-1642(0.72)		
gnl UG Hs#S2294173	2.11	1	395-420(2.11)				
gnl UG Hs#S2139259	0.46	1	175-200(0.46)				
gnl UG Hs#S3838259	1.52	1	1516-1543(1.52)				
gnl UG Hs#S3219890	1.24	3	17-42(0.53)	626-651(0.43)	671-694(1.24)		
gnl UG Hs#S3335613	2.39	5	74-99(0.04)	450-475(2.39)	591-616(0.65)	786-811(0.49)	906-931(0.97)
gnl UG Hs#S15637724	1.13	1	297-323(1.13)				
gnl UG Hs#S1726622	0.88	1	115-143(0.88)				
gnl UG Hs#S1728910	0.04	1	950-975(0.04)				
gnl UG Hs#S5860294	0.63	1	500-525(0.63)				
gnl UG Hs#S3333523	2.75	4	24-50(2.53)	82-109(0.02)	521-547(2.20)	591-616(2.75)	
gnl UG Hs#S1729735	2.3	2	86-111(2.30)	114-139(0.48)			
gnl UG Hs#S4807586	1.76	4	641-668(0.43)	873-898(0.23)	1362-1388(1.76)	1412-1439(0.89)	
gnl UG Hs#S2140484	1.98	3	477-502(1.98)	859-884(0.20)	1079-1105(0.67)		
gnl UG Hs#S1726690	2.82	1	125-151(2.82)				
gnl UG Hs#S1727819	1.72	2	194-217(0.80)	316-342(1.72)			
gnl UG Hs#S4810839	1	1	2708-2736(1.00)				
gnl UG Hs#S1367654	0.55	2	395-420(0.55)	738-764(0.34)			
gnl UG Hs#S1732271	3.4	1	546-572(3.40)				
gnl UG Hs#S1730779	4.23	1	255-281(4.23)				
gnl UG Hs#S1731470	2.26	3	208-233(2.26)	842-866(0.66)	871-896(1.40)		
gnl UG Hs#S1728656	1.82	2	261-286(0.72)	550-575(1.82)			

gnl UG Hs#S2140306	0.01	1 83-110(0.01)
gnl UG Hs#S15634589	0.17	1 377-403(0.17)
gnl UG Hs#S3355468	4.45	1 1860-1885(4.45)
gnl UG Hs#S3993471	0.77	2 513-538(0.77) 749-775(0.10)
gnl UG Hs#S1971548	1.68	4 141-168(1.46) 364-389(1.68) 536-564(0.90) 907-932(0.57)
gnl UG Hs#S5930884	0.17	1 346-371(0.17)
gnl UG Hs#S3219475	3.04	4 234-257(1.43) 656-681(3.04) 818-844(0.67) 995-1020(0.98)
gnl UG Hs#S3817915	1.94	2 841-866(0.84) 1094-1119(1.94)
gnl UG Hs#S2294456	4.43	2 331-356(4.43) 375-400(2.49)
gnl UG Hs#S2293664	1.67	2 187-213(0.50) 462-488(1.67)
gnl UG Hs#S1731957	3.37	1 514-539(3.37)
gnl UG Hs#S15631520	3.87	2 1106-1131(3.87) 1405-1433(0.16)
gnl UG Hs#S3438390	0.49	1 87-113(0.49)
gnl UG Hs#S1728186	1.08	1 864-890(1.08)
gnl UG Hs#S14272908	1.88	5 404-429(0.15) 914-942(1.88) 1732-1757(0.82) 2050-2078(0.65) 2199-2226(1.40)
gnl UG Hs#S1824572	1.57	2 381-406(0.20) 458-483(1.57)
gnl UG Hs#S1731784	3.72	3 226-251(0.89) 1250-1275(3.72) 1337-1362(1.49)
gnl UG Hs#S2294345	0.3	1 351-379(0.30)
gnl UG Hs#S1728980	1.66	2 436-461(1.24) 2182-2210(1.66)
gnl UG Hs#S10817831	0.07	1 505-530(0.07)
gnl UG Hs#S1726378	4.72	3 575-600(0.17) 723-749(4.72) 895-920(0.11)
gnl UG Hs#S1731822	0.33	1 81-107(0.33)
gnl UG Hs#S2139167	0.04	1 1176-1201(0.04)
gnl UG Hs#S3438482	2.46	1 895-920(2.46)
gnl UG Hs#S11046551	0.4	1 142-167(0.40)
gnl UG Hs#S1728491	0.6	1 97-123(0.60)
gnl UG Hs#S2139772	0.94	2 737-762(0.56) 1277-1302(0.94)
gnl UG Hs#S3219966	1.79	2 419-444(1.23) 1172-1197(1.79)
gnl UG Hs#S4822191	0.76	1 423-448(0.76)
gnl UG Hs#S2294178	1.8	3 161-186(1.80) 853-881(0.77) 1044-1070(1.14)
gnl UG Hs#S4546024	1.97	2 701-724(1.97) 1940-1968(0.23)
gnl UG Hs#S998789	0.5	1 362-387(0.50)
gnl UG Hs#S1731214	1.2	1 169-197(1.20)
gnl UG Hs#S4046147	2.3	4 77-105(0.04) 266-292(1.17) 470-498(1.35) 561-586(2.30)
gnl UG Hs#S2138966	1.47	5 538-563(0.71) 732-760(0.09) 826-852(0.69) 1420-1445(0.53) 1947-1972(1.47)
gnl UG Hs#S1728492	2.78	2 99-124(2.78) 133-160(0.14)
gnl UG Hs#S1726403	4.99	1 35-60(4.99)
gnl UG Hs#S5930817	2.29	3 100-125(0.75) 308-333(2.29) 347-374(0.48)
gnl UG Hs#S4807578	1.74	2 1501-1526(1.74) 1544-1569(0.14)
gnl UG Hs#S2293537	0.65	1 387-412(0.65)
gnl UG Hs#S6159042	1.94	1 601-626(1.94)
gnl UG Hs#S1730068	1.56	4 123-149(1.56) 665-694(0.60) 1544-1569(0.39) 1601-1626(0.13)
gnl UG Hs#S4618971	3.24	3 132-157(1.68) 428-456(3.24) 576-602(0.01)
gnl UG Hs#S569432	0.62	1 932-957(0.62)
gnl UG Hs#S1732243	1.01	1 601-627(1.01)
gnl UG Hs#S1728475	5.23	2 92-117(1.17) 658-683(5.23)
gnl UG Hs#S3438721	4.4	7 96-121(1.14) 169-194(4.40) 570-595(0.07) 804-832(0.62) 960-985(0.17) 1041-1066(0.58) 1116-1143(0.03)
gnl UG Hs#S2140194	2.95	1 44-67(2.95)
gnl UG Hs#S2139620	2.97	1 556-581(2.97)
gnl UG Hs#S4284844	2.68	3 78-104(2.12) 213-245(0.33) 418-442(2.68)
gnl UG Hs#S3219665	1.03	1 102-130(1.03)
gnl UG Hs#S1727930	2.86	3 124-147(0.04) 331-357(2.86) 420-448(1.01)
gnl UG Hs#S4613862	0.23	1 513-541(0.23)
gnl UG Hs#S7111303	3.75	3 358-383(3.75) 420-446(3.14) 1326-1351(1.50)

gnl UG Hs#S4435869	1.89	2 1773-1800(0.65) 2193-2219(1.89)
gnl UG Hs#S4813475	0.53	2 342-367(0.53) 591-616(0.53)
gnl UG Hs#S1728763	0.81	1 142-170(0.81)
gnl UG Hs#S5978518	2.74	3 1824-1848(0.26) 2120-2146(2.74) 2301-2326(1.79)
gnl UG Hs#S4831114	2.4	2 46-74(2.40) 318-344(0.75)
gnl UG Hs#S4284326	0.93	2 2099-2125(0.43) 2244-2267(0.93)
gnl UG Hs#S1244988	2.62	3 420-444(1.58) 2548-2574(0.34) 2996-3021(2.62)
gnl UG Hs#S1730058	2.79	3 124-149(0.41) 1070-1095(0.75) 1136-1161(2.79)
gnl UG Hs#S3837523	0.26	1 693-718(0.26)
gnl UG Hs#S3438808	3.6	2 234-260(2.33) 930-959(3.60)
gnl UG Hs#S1729711	0.5	1 452-477(0.50)
gnl UG Hs#S1726797	0.33	1 296-324(0.33)
gnl UG Hs#S3219698	2.07	5 693-720(1.43) 1127-1153(0.91) 1215-1243(2.07) 1251-1276(1.72) 1382-1407(0.85)
gnl UG Hs#S1727565	2.27	1 218-244(2.27)
gnl UG Hs#S5930919	2.3	4 350-378(1.34) 992-1017(2.30) 1116-1141(0.30) 1478-1504(0.62)
gnl UG Hs#S2140423	2.72	2 808-832(0.36) 1555-1580(2.72)
gnl UG Hs#S1726639	1.33	1 583-609(1.33)
gnl UG Hs#S3220216	2.58	1 357-383(2.58)
gnl UG Hs#S1730862	3.21	4 316-342(3.21) 563-589(1.97) 624-651(0.07) 678-702(1.32)
gnl UG Hs#S11046631	4.04	1 709-734(4.04)
gnl UG Hs#S2294036	1.98	1 197-223(1.98)
gnl UG Hs#S7089853	1.17	1 811-836(1.17)
gnl UG Hs#S2294210	6.18	1 1899-1925(6.18)
gnl UG Hs#S2294276	0.61	2 466-494(0.40) 741-767(0.61)
gnl UG Hs#S3601706	4.3	1 809-834(4.30)
gnl UG Hs#S2294654	2.01	1 123-148(2.01)
gnl UG Hs#S5978456	2.84	1 669-698(2.84)
gnl UG Hs#S1732423	1.65	4 277-302(0.81) 862-890(0.04) 1446-1472(1.65) 1791-1817(0.61)
gnl UG Hs#S5930935	3.4	8 148-173(0.13) 383-408(2.30) 836-861(2.03) 1181-1206(3.40) 1261-1286(0.72) 1347-1372(0.26) 1484-1509(0.92) 1675-1701(1.89)
gnl UG Hs#S3601690	2.65	2 565-589(2.22) 826-851(2.65)
gnl UG Hs#S1730037	3.3	4 188-214(3.30) 1980-2008(1.71) 2172-2197(0.39) 2413-2438(0.46)
gnl UG Hs#S4816410	2.01	4 422-448(1.46) 618-646(0.08) 972-997(0.04) 1149-1179(2.01)
gnl UG Hs#S1731625	1.53	1 84-109(1.53)
gnl UG Hs#S3619248	0.39	1 582-607(0.39)
gnl UG Hs#S7113298	4.7	2 3233-3258(4.70) 3802-3827(2.04)
gnl UG Hs#S4807614	2.14	2 276-302(2.14) 661-686(0.08)
gnl UG Hs#S15635073	3.27	5 38-64(3.27) 108-135(0.34) 186-214(2.88) 370-395(1.53) 406-431(0.17)
gnl UG Hs#S2138682	1.72	3 208-233(1.72) 530-558(1.35) 758-783(0.39)
gnl UG Hs#S1731732	4.24	1 185-213(4.24)
gnl UG Hs#S3991229	1.98	1 132-160(1.98)
gnl UG Hs#S11154088	0.17	1 1053-1078(0.17)
gnl UG Hs#S1732412	1.35	1 770-798(1.35)
gnl UG Hs#S4046548	1.54	2 53-79(1.04) 87-113(1.54)
gnl UG Hs#S6158995	6.5	2 33-59(6.50) 228-253(0.24)
gnl UG Hs#S1824334	2.23	4 91-116(2.23) 180-205(0.41) 302-327(1.01) 415-443(0.97)
gnl UG Hs#S2293267	3.46	3 433-458(1.07) 861-886(0.61) 979-1003(3.46)
gnl UG Hs#S4621398	2.53	6 331-356(2.53) 406-431(1.26) 798-821(0.25) 1185-1210(2.13) 1629-1654(2.15) 1675-1700(0.14)
gnl UG Hs#S11046609	0.72	1 1076-1101(0.72)
gnl UG Hs#S1824408	1.36	1 117-142(1.36)
gnl UG Hs#S2138956	0.91	1 630-656(0.91)
gnl UG Hs#S1731620	3.14	2 190-215(3.14) 542-571(0.71)
gnl UG Hs#S1731829	3.3	6 1322-1348(3.30) 1718-1746(0.49) 1887-1915(0.18) 2061-2086(0.20) 2185-2209(0.33) 2359-2388(0.74)
gnl UG Hs#S4841582	2.32	3 23-48(1.82) 1208-1236(0.08) 2310-2335(2.32)
gnl UG Hs#S2139613	5.11	6 440-465(5.11) 1233-1258(0.07) 1379-1404(2.60) 1654-1679(0.14) 1789-1815(0.23) 2119-2144(1.04)

gnl UG Hs#S1726543	0.87	2	108-134(0.08) 542-567(0.87)
gnl UG Hs#S5978496	0.77	2	167-193(0.30) 499-527(0.77)
gnl UG Hs#S4283978	0.62	1	227-252(0.62)
gnl UG Hs#S2140419	0.58	2	634-659(0.36) 1234-1259(0.58)
gnl UG Hs#S2294422	0.67	1	17-42(0.67)
gnl UG Hs#S1727805	2.78	3	171-196(0.11) 846-871(2.78) 875-901(0.93)
gnl UG Hs#S1727377	0.46	1	151-176(0.46)
gnl UG Hs#S1824494	0.29	1	669-695(0.29)
gnl UG Hs#S5516863	2.46	1	994-1019(2.46)
gnl UG Hs#S15642842	0.25	2	200-225(0.20) 529-554(0.25)
gnl UG Hs#S3219174	3.2	3	80-105(0.91) 199-224(3.20) 638-664(2.65)
gnl UG Hs#S4284767	1.33	3	200-225(1.33) 325-350(0.30) 617-642(0.29)
gnl UG Hs#S3219611	3.47	7	328-353(0.07) 888-914(0.99) 1249-1274(1.68) 1323-1349(2.98) 1374-1399(3.13) 1558-1584(0.76) 1654-1678(3.47)
gnl UG Hs#S4829433	2.72	2	126-154(2.72) 419-444(0.58)
gnl UG Hs#S1730383	0.26	1	1368-1393(0.26)
gnl UG Hs#S15634876	0.98	1	331-357(0.98)
gnl UG Hs#S3439096	0.81	1	50-78(0.81)
gnl UG Hs#S4820111	4.58	3	233-258(4.58) 888-913(2.23) 956-981(1.14)
gnl UG Hs#S2139463	2.92	1	1723-1749(2.92)
gnl UG Hs#S4614603	2.94	3	1797-1823(0.50) 1893-1918(2.94) 2023-2048(1.19)
gnl UG Hs#S4554583	1.23	2	681-706(1.23) 737-762(0.23)
gnl UG Hs#S3619726	2.53	2	241-266(2.53) 276-304(0.71)
gnl UG Hs#S15846864	0.89	1	1021-1047(0.89)
gnl UG Hs#S2293453	1.39	1	1202-1227(1.39)
gnl UG Hs#S1569524	0.88	1	2006-2031(0.88)
gnl UG Hs#S3973025	2.27	1	223-249(2.27)
gnl UG Hs#S4284780	2.11	1	44-69(2.11)
gnl UG Hs#S3438543	1.5	2	349-374(0.34) 443-468(1.50)
gnl UG Hs#S1569484	2.1	5	1190-1215(2.10) 1406-1431(0.04) 2900-2928(1.39) 2979-3006(0.55) 3209-3235(1.03)
gnl UG Hs#S1730206	4.39	6	248-273(1.85) 385-410(0.99) 1584-1612(0.52) 1794-1819(4.39) 2478-2506(1.69) 3427-3452(0.85)
gnl UG Hs#S3542666	0.13	1	957-987(0.13)
gnl UG Hs#S4822062	3.4	5	1003-1031(3.40) 1658-1683(0.81) 1720-1746(1.36) 1858-1886(1.21) 2025-2049(1.26)
gnl UG Hs#S1731482	1.72	2	437-462(1.72) 487-513(0.40)
gnl UG Hs#S2293371	3.39	4	298-323(3.39) 884-909(0.26) 1084-1107(1.14) 1251-1276(1.72)
gnl UG Hs#S5978466	3.97	3	768-796(0.06) 1639-1664(0.17) 1838-1863(3.97)
gnl UG Hs#S3218996	1.26	1	45-71(1.26)
gnl UG Hs#S1731087	0.65	1	1059-1085(0.65)
gnl UG Hs#S2140203	0.72	1	518-543(0.72)
gnl UG Hs#S4820113	6.79	1	385-410(6.79)
gnl UG Hs#S14802391	1.06	3	174-202(0.56) 1213-1238(0.04) 1299-1326(1.06)
gnl UG Hs#S15631488	0.71	1	271-297(0.71)
gnl UG Hs#S1732396	0.76	1	334-360(0.76)
gnl UG Hs#S1824353	0.65	1	379-404(0.65)
gnl UG Hs#S1727167	1.4	3	9-33(0.87) 141-169(1.40) 312-339(0.26)
gnl UG Hs#S6091935	0.89	1	82-109(0.89)
gnl UG Hs#S1972978	0.5	1	1137-1163(0.50)
gnl UG Hs#S1731634	0.99	1	35-61(0.99)
gnl UG Hs#S15642205	0.08	1	122-150(0.08)
gnl UG Hs#S3602306	0.08	1	336-362(0.08)
gnl UG Hs#S3993835	0.66	2	180-206(0.27) 344-369(0.66)
gnl UG Hs#S3438947	3.1	1	789-813(3.10)
gnl UG Hs#S3219675	3.03	1	16-42(3.03)
gnl UG Hs#S15636883	2.21	1	265-293(2.21)
gnl UG Hs#S2293618	0.08	1	367-392(0.08)

gnl UG Hs#S1730834	5.67	1 37-63(5.67)
gnl UG Hs#S1727616	1.53	6 388-416(1.08) 601-626(1.53) 699-722(0.52) 907-934(0.85) 1444-1469(0.43) 1774-1799(0.52)
gnl UG Hs#S2294289	2.5	1 92-118(2.50)
gnl UG Hs#S2139385	1	3 809-835(0.30) 848-873(0.11) 2117-2142(1.00)
gnl UG Hs#S3438772	8.05	1 334-360(8.05)
gnl UG Hs#S10831764	0.98	1 465-490(0.98)
gnl UG Hs#S2294478	3.26	3 32-57(3.26) 299-324(1.03) 434-459(2.53)
gnl UG Hs#S7111620	3.63	12 212-237(3.63) 382-416(1.10) 1015-1039(1.75) 2046-2071(0.65) 2160-2186(2.40) 2356-2385(0.66) 2545-2571(2.72) 2611-2636(0.17) 2710-2735(0.74) 3304-3332(0.56) 3741-3766(0.43) 3787-3812(0.43)
gnl UG Hs#S1727177	3.94	1 315-340(3.94)
gnl UG Hs#S4807613	0.55	1 100-127(0.55)
gnl UG Hs#S15631732	1.92	1 122-149(1.92)
gnl UG Hs#S1731439	0.52	1 131-157(0.52)
gnl UG Hs#S3219645	5.5	5 1-30(0.98) 68-93(4.43) 133-157(1.00) 224-250(2.18) 276-302(5.50)
gnl UG Hs#S1730448	4.62	1 675-700(4.62)
gnl UG Hs#S1731539	0.72	2 192-217(0.72) 704-732(0.30)
gnl UG Hs#S1729271	4.72	2 110-138(4.72) 699-724(1.35)
gnl UG Hs#S226194	2.63	3 354-377(0.82) 530-555(2.63) 562-585(1.54)
gnl UG Hs#S5978527	1.2	1 1438-1464(1.20)
gnl UG Hs#S3547257	1.17	1 844-869(1.17)
gnl UG Hs#S2139934	1.67	7 513-538(0.26) 966-991(0.46) 1010-1036(1.01) 1052-1078(0.75) 1395-1420(1.48) 1512-1535(1.67) 2071-2096(1.04)
gnl UG Hs#S1730693	0.65	1 217-242(0.65)
gnl UG Hs#S11046583	5.04	1 249-274(5.04)
gnl UG Hs#S7110110	3.52	5 414-437(1.08) 908-936(2.23) 999-1024(3.52) 1385-1413(0.98) 1575-1601(2.72)
gnl UG Hs#S1728367	2.89	6 571-596(1.98) 754-780(2.89) 2461-2486(0.32) 2500-2525(1.85) 2561-2588(0.21) 3078-3103(0.45)
gnl UG Hs#S1728442	1.99	4 385-410(1.79) 944-969(0.98) 1361-1386(1.08) 1702-1726(1.99)
gnl UG Hs#S1730727	4.36	1 1598-1626(4.36)
gnl UG Hs#S1730104	0.17	1 318-344(0.17)
gnl UG Hs#S2139507	1.3	3 199-224(1.28) 653-678(0.97) 703-728(1.30)
gnl UG Hs#S1730518	0.74	1 760-788(0.74)
gnl UG Hs#S2139631	1.69	3 544-569(1.69) 592-618(0.66) 1103-1128(1.23)
gnl UG Hs#S6158967	3.9	4 414-439(3.90) 441-469(2.05) 1855-1881(1.53) 2032-2058(0.23)
gnl UG Hs#S2139028	0.63	1 232-257(0.63)
gnl UG Hs#S5930827	0.3	1 301-327(0.30)
gnl UG Hs#S3219627	1.17	2 133-158(0.46) 169-194(1.17)
gnl UG Hs#S5978498	3.4	3 1366-1391(0.36) 1886-1911(3.40) 1965-1993(1.08)
gnl UG Hs#S3601759	1.34	1 237-262(1.34)
gnl UG Hs#S14863730	1.16	4 95-120(1.16) 215-240(0.57) 298-323(0.40) 891-917(0.71)
gnl UG Hs#S2139325	3.7	5 636-662(0.26) 782-811(0.11) 845-870(3.70) 1682-1707(0.65) 1907-1932(2.53)
gnl UG Hs#S1730053	1.72	3 579-605(0.72) 648-676(0.14) 1176-1201(1.72)
gnl UG Hs#S1727064	0.72	3 303-328(0.72) 590-615(0.07) 1035-1060(0.46)
gnl UG Hs#S3817892	1.75	1 1216-1242(1.75)
gnl UG Hs#S4046196	2.17	2 304-330(0.56) 462-488(2.17)
gnl UG Hs#S4554324	3.53	9 898-925(0.01) 968-996(1.66) 1001-1025(2.26) 1350-1377(0.62) 1418-1445(0.43) 1562-1588(0.98) 1632-1659(3.53) 1718-1744(0.50) 1765-1791(0.02)
gnl UG Hs#S1728236	0.56	1 666-692(0.56)
gnl UG Hs#S4613953	0.82	1 115-142(0.82)
gnl UG Hs#S3991912	2.04	1 1838-1863(2.04)
gnl UG Hs#S1730530	0.87	2 179-204(0.87) 702-728(0.40)
gnl UG Hs#S1729967	1.1	1 359-382(1.10)
gnl UG Hs#S2139624	0.94	3 1285-1311(0.94) 1920-1945(0.20) 1946-1971(0.20)
gnl UG Hs#S2293901	1.52	4 1083-1108(0.98) 1265-1293(1.52) 1741-1768(0.71) 2036-2061(0.55)
gnl UG Hs#S3322146	0.23	1 574-599(0.23)
gnl UG Hs#S11046667	1.83	4 1147-1173(0.10) 2006-2031(0.58) 2037-2063(1.83) 2523-2549(0.34)
gnl UG Hs#S5860360	1.94	3 71-96(1.94) 426-451(0.04) 598-624(1.33)
gnl UG Hs#S1726299	0.58	1 274-302(0.58)

gnl UG Hs#S14802432	0.14	1	1093-1118(0.14)
gnl UG Hs#S1731591	1.11	2	239-264(1.11) 490-515(0.30)
gnl UG Hs#S14802373	2.17	3	220-246(2.17) 640-666(1.62) 1271-1296(0.13)
gnl UG Hs#S1730250	0.92	2	108-131(0.92) 796-821(0.89)
gnl UG Hs#S5978468	0.98	3	493-518(0.78) 651-677(0.98) 739-764(0.30)
gnl UG Hs#S1727934	1.57	1	354-379(1.57)
gnl UG Hs#S5495079	1.23	1	454-480(1.23)
gnl UG Hs#S4817160	0.65	2	2160-2185(0.65) 2209-2235(0.28)
gnl UG Hs#S3619228	1.81	1	2319-2347(1.81)
gnl UG Hs#S1731819	1.44	2	352-380(1.44) 1079-1104(0.33)
gnl UG Hs#S4820763	1.98	3	15-42(0.07) 278-303(0.98) 417-444(1.98)
gnl UG Hs#S10832225	0.66	3	1339-1364(0.66) 1728-1753(0.08) 1771-1796(0.33)
gnl UG Hs#S1731082	1.11	2	161-187(0.40) 438-464(1.11)
gnl UG Hs#S3803436	1.3	1	291-314(1.30)
gnl UG Hs#S1731794	2.18	2	334-360(1.25) 531-559(2.18)
gnl UG Hs#S1726563	0.55	2	614-639(0.20) 906-930(0.55)
gnl UG Hs#S7111404	1.68	1	466-492(1.68)
gnl UG Hs#S1729789	1.07	1	18-46(1.07)
gnl UG Hs#S5495036	0.27	1	56-83(0.27)
gnl UG Hs#S10831598	0.5	1	1139-1164(0.50)
gnl UG Hs#S1727495	2.76	2	262-287(1.89) 363-388(2.76)
gnl UG Hs#S1971500	1.72	3	1037-1062(0.98) 1396-1422(1.72) 1555-1578(0.95)
gnl UG Hs#S1824346	0.4	1	1217-1242(0.40)
gnl UG Hs#S4614610	3.13	6	420-446(2.40) 460-486(1.08) 572-597(3.13) 729-756(0.65) 1407-1432(2.84) 1635-1660(0.04)
gnl UG Hs#S4807942	0.23	2	195-222(0.07) 1046-1072(0.23)
gnl UG Hs#S1727072	0.08	1	1683-1709(0.08)
gnl UG Hs#S3219297	0.43	1	1869-1894(0.43)
gnl UG Hs#S2139136	0.11	1	64-89(0.11)
gnl UG Hs#S2140618	0.82	2	105-131(0.82) 139-165(0.44)
gnl UG Hs#S15631530	1.49	2	335-362(1.49) 408-434(0.34)
gnl UG Hs#S2140014	2.36	1	43-68(2.36)
gnl UG Hs#S2293447	4.01	3	41-68(4.01) 610-633(0.49) 896-922(1.58)
gnl UG Hs#S1726820	0.33	3	557-583(0.23) 1194-1219(0.26) 1900-1925(0.33)
gnl UG Hs#S3438811	3.3	5	212-237(0.69) 241-267(0.11) 1115-1140(0.88) 1403-1428(3.30) 1511-1536(0.23)
gnl UG Hs#S2139517	2.23	1	3628-3654(2.23)
gnl UG Hs#S1732162	1.23	1	1019-1044(1.23)
gnl UG Hs#S1729558	2.95	4	410-436(2.95) 812-837(1.50) 862-889(1.04) 1125-1150(1.46)
gnl UG Hs#S14802057	1.98	3	334-359(0.36) 1013-1038(1.98) 1456-1482(1.82)
gnl UG Hs#S1727117	4.72	2	83-109(2.34) 170-196(4.72)
gnl UG Hs#S4825089	1.76	3	601-626(1.32) 867-892(1.76) 1969-1993(1.19)
gnl UG Hs#S6163431	1.4	2	2363-2387(0.08) 3115-3140(1.40)
gnl UG Hs#S2293890	1.79	1	127-152(1.79)
gnl UG Hs#S2293596	2.98	6	104-131(2.24) 181-206(1.13) 331-357(1.43) 365-389(2.30) 493-518(2.98) 678-706(2.30)
gnl UG Hs#S3220046	1.25	3	288-313(0.87) 1522-1547(1.25) 2002-2027(0.26)
gnl UG Hs#S10817743	4.62	6	302-328(0.56) 430-456(0.34) 895-920(4.62) 933-959(2.43) 976-1002(4.14) 1195-1219(1.51)
gnl UG Hs#S2139266	2.07	10	520-548(0.02) 643-668(1.58) 842-865(2.07) 1009-1037(1.35) 1674-1699(0.72) 1710-1735(0.20) 2577-2605(0.75) 2649-2673(0.13) 2711-2737(1.98) 3095-3120(1.57)
gnl UG Hs#S3438683	0.01	1	841-866(0.01)
gnl UG Hs#S1971629	1.12	4	594-619(0.56) 2596-2624(1.00) 3067-3091(1.12) 3340-3366(0.40)
gnl UG Hs#S2293646	1.94	5	192-219(0.04) 453-481(1.33) 910-937(1.94) 1221-1248(0.61) 1304-1333(0.68)
gnl UG Hs#S2139272	1.24	2	485-510(1.24) 511-536(1.17)
gnl UG Hs#S1729500	0.98	1	360-385(0.98)
gnl UG Hs#S3601499	0.91	1	411-436(0.91)
gnl UG Hs#S1729505	0.13	1	82-107(0.13)
gnl UG Hs#S1728514	2.82	2	317-344(0.40) 383-408(2.82)

gnl UG Hs#S7111908	2.71	1	299-324(2.71)
gnl UG Hs#S4807600	2.72	1	436-461(2.72)
gnl UG Hs#S1729065	2.89	1	534-559(2.89)
gnl UG Hs#S10831805	4.53	1	445-470(4.53)
gnl UG Hs#S5860327	4.04	13	196-221(2.72) 366-391(2.30) 399-425(0.84) 600-625(0.20) 656-681(1.46) 1254-1281(0.88) 2394-2419(4.04) 2685-2710(0.46) 2739-2764(0.26) 3184-3209(0.30) 3215-3243(0.07) 3451-3481(0.97) 401
gnl UG Hs#S14273252	3.4	4	159-185(1.23) 536-562(0.33) 764-791(1.46) 1372-1398(3.40)
gnl UG Hs#S15637923	0.62	1	52-80(0.62)
gnl UG Hs#S3438838	3.4	2	189-215(2.04) 250-278(3.40)
gnl UG Hs#S2294655	1.4	5	233-257(1.40) 354-379(0.53) 859-884(0.63) 1158-1182(0.30) 1438-1464(1.21)
gnl UG Hs#S3602307	0.11	1	178-203(0.11)
gnl UG Hs#S2294627	1.55	5	255-283(1.55) 573-599(1.27) 1006-1031(1.40) 1091-1118(0.72) 1183-1211(0.04)
gnl UG Hs#S2139397	3.49	2	1091-1116(2.48) 1278-1304(3.49)
gnl UG Hs#S3322397	0.91	1	1104-1130(0.91)
gnl UG Hs#S15640387	4.75	3	120-147(3.47) 629-654(4.75) 880-905(1.48)
gnl UG Hs#S2139160	3.27	3	78-103(0.04) 123-146(3.27) 233-258(2.49)
gnl UG Hs#S1732223	0.43	1	78-104(0.43)
gnl UG Hs#S3438771	2.33	1	1456-1481(2.33)
gnl UG Hs#S15634544	3.14	3	524-549(3.14) 1150-1175(0.43) 1745-1770(0.65)
gnl UG Hs#S3437921	0.76	1	113-139(0.76)
gnl UG Hs#S1727963	3.08	1	73-98(3.08)
gnl UG Hs#S2293994	2.04	2	389-414(0.72) 447-472(2.04)
gnl UG Hs#S3439814	1.36	1	1132-1156(1.36)
gnl UG Hs#S4836163	2.4	5	891-916(1.44) 1007-1033(0.60) 1162-1188(1.62) 1344-1369(0.37) 1385-1410(2.40)
gnl UG Hs#S5495005	4.53	5	517-543(1.50) 735-760(1.62) 780-805(0.53) 829-855(0.08) 1133-1158(4.53)
gnl UG Hs#S1824520	0.88	2	477-502(0.14) 524-549(0.88)
gnl UG Hs#S4813741	3.04	6	1899-1924(1.72) 2166-2192(0.91) 3054-3079(0.30) 3164-3188(3.04) 3579-3604(0.68) 3778-3803(0.59)
gnl UG Hs#S4284776	2.39	2	650-675(2.39) 955-978(0.14)
gnl UG Hs#S14802292	0.75	1	149-174(0.75)
gnl UG Hs#S3219270	1.49	2	238-266(1.49) 378-403(0.03)
gnl UG Hs#S1973938	2.72	5	23-48(2.46) 411-437(2.65) 714-739(0.07) 931-957(2.33) 1812-1837(2.72)
gnl UG Hs#S3438965	1.04	1	295-321(1.04)
gnl UG Hs#S2140218	1.23	2	285-311(1.23) 892-918(0.55)
gnl UG Hs#S4824796	1.71	1	262-290(1.71)
gnl UG Hs#S1726750	2.26	1	1057-1082(2.26)
gnl UG Hs#S1729174	3.67	3	628-653(0.55) 856-882(3.67) 973-996(2.66)
gnl UG Hs#S1730319	0.65	1	89-114(0.65)
gnl UG Hs#S2293320	1.04	1	1163-1188(1.04)
gnl UG Hs#S15632761	1.75	2	47-72(0.43) 960-986(1.75)
gnl UG Hs#S1729736	5.92	10	318-344(0.30) 473-498(0.24) 590-618(0.04) 747-772(4.39) 919-944(0.15) 1281-1306(1.50) 1858-1884(5.92) 2004-2030(1.08) 2062-2090(2.33) 2229-2254(1.40)
gnl UG Hs#S4823029	5.72	2	2731-2756(5.72) 3389-3414(1.20)
gnl UG Hs#S1731338	0.74	1	107-132(0.74)
gnl UG Hs#S3355509	0.17	1	96-125(0.17)
gnl UG Hs#S11154010	1.65	2	182-207(0.92) 1708-1735(1.65)
gnl UG Hs#S1731878	3.87	1	784-809(3.87)
gnl UG Hs#S1731585	2.37	4	332-355(1.03) 649-674(1.50) 1127-1152(2.37) 1634-1659(2.26)
gnl UG Hs#S1727579	1.76	1	170-196(1.76)
gnl UG Hs#S1730125	3.67	4	953-979(3.67) 1027-1053(0.94) 1695-1720(0.07) 1903-1929(0.40)
gnl UG Hs#S2293728	1.3	2	253-278(1.30) 517-542(0.30)
gnl UG Hs#S4044987	0.81	1	724-752(0.81)
gnl UG Hs#S4817692	2.52	1	7-32(2.52)
gnl UG Hs#S14272923	3.8	3	211-236(3.80) 353-378(1.05) 832-857(0.84)
gnl UG Hs#S3543453	5.43	1	67-92(5.43)
gnl UG Hs#S3219873	1.39	1	195-220(1.39)
gnl UG Hs#S4829488	3.3	6	2112-2137(3.30) 2376-2401(1.04) 2630-2655(1.37) 2802-2829(0.35) 2986-3011(0.14) 3050-3073(2.69)

gnl UG Hs#S2140699	0.34	1 305-331(0.34)
gnl UG Hs#S4554047	1.81	1 419-444(1.81)
gnl UG Hs#S2293887	2.6	5 621-646(0.26) 848-874(2.60) 897-922(0.14) 1318-1344(2.50) 1442-1467(0.07)
gnl UG Hs#S2139502	3.97	5 35-60(3.97) 188-217(0.81) 456-479(2.62) 1163-1188(1.98) 2975-3003(0.17)
gnl UG Hs#S3219259	2.04	1 269-294(2.04)
gnl UG Hs#S3439021	0.14	1 311-336(0.14)
gnl UG Hs#S1727253	1.94	2 242-270(1.94) 282-311(0.34)
gnl UG Hs#S5930951	0.62	1 626-651(0.62)
gnl UG Hs#S1728059	1.56	1 332-357(1.56)
gnl UG Hs#S3987304	0.23	1 279-304(0.23)
gnl UG Hs#S1729624	0.43	1 242-268(0.43)
gnl UG Hs#S2294357	1.48	1 167-192(1.48)
gnl UG Hs#S1731934	0.69	1 539-567(0.69)
gnl UG Hs#S3323065	3.92	3 319-347(2.40) 1113-1139(3.92) 1600-1626(0.76)
gnl UG Hs#S3905489	2.4	2 9-34(1.65) 1782-1810(2.40)
gnl UG Hs#S5978475	3.25	1 801-826(3.25)
gnl UG Hs#S3219914	4.07	1 854-880(4.07)
gnl UG Hs#S3987163	2.52	3 680-705(2.52) 1049-1074(1.82) 1125-1150(0.59)
gnl UG Hs#S3826009	0.07	1 713-741(0.07)
gnl UG Hs#S1728192	2.04	4 78-101(0.20) 162-188(2.04) 336-361(0.14) 1691-1716(1.17)
gnl UG Hs#S1730969	0.74	2 38-65(0.74) 326-354(0.30)
gnl UG Hs#S2140280	1.08	2 306-331(0.88) 500-526(1.08)
gnl UG Hs#S1729281	0.3	1 538-563(0.30)
gnl UG Hs#S1729376	3.4	3 28-53(1.65) 116-144(3.40) 160-186(0.76)
gnl UG Hs#S2140027	1.07	2 201-228(1.07) 361-389(0.38)
gnl UG Hs#S4622311	3.9	3 517-541(0.40) 2125-2150(3.90) 3398-3423(1.40)
gnl UG Hs#S4044692	0.49	1 554-582(0.49)
gnl UG Hs#S1729031	2.88	3 130-155(1.62) 280-305(0.54) 355-383(2.88)
gnl UG Hs#S3973129	2.3	3 1328-1354(2.30) 1380-1405(1.16) 1644-1669(2.04)
gnl UG Hs#S4807530	1.97	1 115-138(1.97)
gnl UG Hs#S3220039	3.34	3 412-438(3.34) 524-548(1.79) 698-721(0.62)
gnl UG Hs#S2139489	0.23	1 1962-1987(0.23)
gnl UG Hs#S3220201	0.23	1 1500-1525(0.23)
gnl UG Hs#S2139341	0.74	1 2397-2422(0.74)
gnl UG Hs#S2293992	0.2	1 177-202(0.20)
gnl UG Hs#S1727239	0.98	5 816-841(0.39) 972-1000(0.35) 1161-1189(0.94) 1232-1257(0.39) 1500-1526(0.98)
gnl UG Hs#S2139471	2.57	1 1627-1652(2.57)
gnl UG Hs#S2139119	1.08	2 516-542(0.88) 1124-1150(1.08)
gnl UG Hs#S1730802	10.28	9 544-570(0.18) 937-962(1.53) 1056-1081(0.74) 1644-1669(0.20) 2154-2179(10.28) 2218-2246(1.83) 2287-2312(0.30) 3044-3067(1.04) 3133-3158(0.40)
gnl UG Hs#S3219540	0.5	1 52-78(0.50)
gnl UG Hs#S1728958	1.07	1 229-257(1.07)
gnl UG Hs#S5931219	0.88	3 255-282(0.88) 312-336(0.26) 908-934(0.09)
gnl UG Hs#S7112873	3.3	16 84-110(1.50) 187-215(3.30) 315-340(1.30) 1211-1237(1.18) 1640-1665(0.07) 1765-1790(0.46) 1837-1865(0.58) 1870-1896(0.01) 1930-1955(2.26) 2033-2059(0.69) 2061-2086(2.72) 2164-2189(0.58)
gnl UG Hs#S4810939	1.46	2 340-365(1.46) 1054-1079(0.33)
gnl UG Hs#S5978510	2.17	5 669-697(2.17) 1330-1358(0.81) 1395-1420(1.63) 1726-1751(0.48) 2458-2484(0.91)
gnl UG Hs#S2293162	1.29	1 425-450(1.29)
gnl UG Hs#S3601546	2.85	5 136-161(2.85) 245-271(1.72) 538-563(1.15) 622-647(0.34) 916-944(0.81)
gnl UG Hs#S4823798	1.82	1 1719-1744(1.82)
gnl UG Hs#S1824523	0.04	1 435-460(0.04)
gnl UG Hs#S4435157	4.1	4 1169-1195(0.23) 1550-1576(3.91) 1812-1837(0.68) 1873-1901(4.10)
gnl UG Hs#S4545823	3.47	6 72-97(1.13) 465-490(3.46) 499-527(3.47) 626-654(3.03) 728-753(0.89) 765-790(0.34)
gnl UG Hs#S3973077	3.4	2 54-80(3.40) 98-123(0.14)
gnl UG Hs#S1726446	2.67	2 911-937(1.40) 1037-1062(2.67)
gnl UG Hs#S4819922	2.72	5 538-563(0.23) 1419-1446(2.72) 1524-1550(1.82) 1959-1984(0.74) 2536-2562(0.62)

gnl UG Hs#S14802379	1.91	1	165-193(1.91)
gnl UG Hs#S1730494	1.94	7	949-974(0.43) 1201-1226(0.17) 1253-1278(1.91) 1444-1470(1.26) 1972-1997(0.20) 2856-2879(0.18) 3306-3330(1.94)
gnl UG Hs#S1726699	1.33	1	810-835(1.33)
gnl UG Hs#S3438655	0.2	1	496-521(0.20)
gnl UG Hs#S1729961	2.07	2	1007-1033(1.82) 1648-1673(2.07)
gnl UG Hs#S1729341	0.46	1	787-812(0.46)
gnl UG Hs#S3438622	0.95	1	1411-1434(0.95)
gnl UG Hs#S1728155	1.58	2	115-140(1.14) 147-175(1.58)
gnl UG Hs#S5978568	2.72	6	237-262(0.50) 581-611(0.13) 829-855(2.72) 976-1001(0.98) 1238-1261(0.95) 1329-1355(0.62)
gnl UG Hs#S1727959	3.46	2	55-80(0.46) 708-733(3.46)
gnl UG Hs#S4396131	0.75	5	81-106(0.72) 1151-1176(0.75) 1631-1657(0.15) 1682-1708(0.64) 1712-1736(0.04)
gnl UG Hs#S2139593	2.94	8	532-560(0.59) 972-997(0.22) 1146-1171(1.40) 1202-1228(2.52) 1306-1333(0.86) 1909-1934(1.30) 1955-1981(0.26) 2308-2333(2.94)
gnl UG Hs#S14802301	0.69	1	440-466(0.69)
gnl UG Hs#S3219501	3.3	2	232-257(1.89) 347-373(3.30)
gnl UG Hs#S3219135	3.71	1	200-225(3.71)
gnl UG Hs#S2294376	1.91	1	57-82(1.91)
gnl UG Hs#S1731926	0.62	2	398-426(0.20) 924-949(0.62)
gnl UG Hs#S1728311	0.5	1	250-275(0.50)
gnl UG Hs#S3603866	2.17	2	621-646(0.72) 951-977(2.17)
gnl UG Hs#S2139890	8.69	2	375-400(8.69) 690-716(1.17)
gnl UG Hs#S4620944	0.23	1	1581-1607(0.23)
gnl UG Hs#S14812636	2.3	4	318-344(1.60) 945-972(0.46) 1637-1662(0.79) 1677-1703(2.30)
gnl UG Hs#S4621105	2.13	3	696-721(0.30) 848-876(2.13) 1425-1450(0.65)
gnl UG Hs#S4807738	1.07	1	349-374(1.07)
gnl UG Hs#S2139832	3.33	7	30-55(1.72) 291-317(3.33) 490-515(0.43) 1658-1683(1.04) 1919-1942(0.97) 2020-2045(1.72) 2198-2226(1.56)
gnl UG Hs#S4545932	0.48	1	259-284(0.48)
gnl UG Hs#S1726277	1.65	2	346-371(1.65) 2063-2088(0.58)
gnl UG Hs#S1824290	1.11	1	529-554(1.11)
gnl UG Hs#S1732183	1.18	8	78-103(0.08) 621-646(0.13) 661-687(0.12) 732-757(0.89) 864-890(0.43) 2022-2047(0.40) 2192-2217(0.65) 2263-2288(1.18)
gnl UG Hs#S4807595	4.11	7	101-126(4.11) 398-423(0.72) 569-595(0.69) 701-726(2.30) 1164-1190(2.08) 1567-1592(0.23) 1706-1731(0.98)
gnl UG Hs#S2139917	1.5	4	50-76(0.84) 215-241(1.50) 268-293(0.33) 586-609(1.50)
gnl UG Hs#S1731367	2.85	2	874-899(2.07) 938-964(2.85)
gnl UG Hs#S2293249	0.08	1	187-213(0.08)
gnl UG Hs#S2139135	2.15	2	906-931(1.55) 1126-1154(2.15)
gnl UG Hs#S3219844	0.21	1	352-375(0.21)
gnl UG Hs#S3880623	1.9	2	129-156(0.62) 1573-1597(1.90)
gnl UG Hs#S2140460	0.21	1	303-328(0.21)
gnl UG Hs#S4807593	1.17	1	391-417(1.17)
gnl UG Hs#S1726630	3.3	1	153-178(3.30)
gnl UG Hs#S15632325	3.3	1	343-368(3.30)
gnl UG Hs#S2294502	5.12	2	69-94(5.12) 349-375(1.68)
gnl UG Hs#S2139486	2.2	5	455-481(0.01) 1251-1276(1.59) 1282-1307(0.75) 1730-1755(2.20) 2564-2592(0.08)
gnl UG Hs#S1727566	5.04	4	142-168(5.04) 411-436(0.66) 814-840(1.61) 879-905(1.05)
gnl UG Hs#S1727286	0.01	1	506-534(0.01)
gnl UG Hs#S3602297	2.65	3	56-81(2.56) 764-789(2.65) 1487-1512(0.01)
gnl UG Hs#S2293908	1.76	2	57-81(0.14) 984-1009(1.76)
gnl UG Hs#S4807784	1.46	1	163-188(1.46)
gnl UG Hs#S15640874	2.69	2	718-743(2.25) 1726-1751(2.69)
gnl UG Hs#S4812715	3.41	3	132-156(3.41) 218-243(0.07) 516-541(0.98)
gnl UG Hs#S3220068	4.08	2	809-834(2.63) 1385-1411(4.08)
gnl UG Hs#S2293617	2.49	4	894-919(1.92) 1541-1565(1.04) 1616-1644(2.49) 1772-1797(1.01)
gnl UG Hs#S1727620	0.68	2	195-219(0.68) 534-560(0.55)
gnl UG Hs#S15634488	1.13	2	260-285(1.13) 1696-1722(0.82)
gnl UG Hs#S5517759	3.69	5	189-214(0.36) 1256-1281(3.69) 1460-1485(0.23) 1936-1961(1.38) 2015-2040(1.84)

gnl UG Hs#S11154022	0.13	1	224-249(0.13)
gnl UG Hs#S7112347	1.79	1	540-563(1.79)
gnl UG Hs#S2293471	2.04	7	691-716(1.90) 1044-1069(0.84) 1313-1340(0.56) 1465-1490(0.40) 1793-1818(2.04) 2201-2227(1.08) 2269-2294(0.53)
gnl UG Hs#S4546286	0.22	1	120-145(0.22)
gnl UG Hs#S15634227	0.89	2	439-462(0.89) 1424-1449(0.40)
gnl UG Hs#S4816905	0.72	3	368-393(0.40) 432-458(0.72) 520-543(0.37)
gnl UG Hs#S2140045	0.59	1	561-589(0.59)
gnl UG Hs#S4810017	1.98	4	133-158(1.98) 198-223(1.08) 1167-1191(0.19) 2137-2162(1.72)
gnl UG Hs#S15644268	2.16	5	846-871(1.72) 956-981(1.39) 1043-1068(0.98) 1244-1269(2.16) 1279-1304(1.89)
gnl UG Hs#S2293440	5.17	4	464-489(0.50) 1172-1198(0.50) 1309-1334(5.17) 1635-1660(0.87)
gnl UG Hs#S7112434	6.37	2	1145-1170(6.37) 1189-1217(3.67)
gnl UG Hs#S15631987	2.17	7	241-266(2.17) 425-453(1.98) 616-641(2.17) 800-828(1.98) 991-1016(2.17) 1180-1205(2.17) 1684-1711(1.26)
gnl UG Hs#S7110941	2.86	4	307-332(0.04) 872-897(2.86) 1056-1082(2.08) 1118-1143(0.62)
gnl UG Hs#S11046566	4.04	2	238-263(0.81) 358-383(4.04)
gnl UG Hs#S1726489	2.07	1	1822-1847(2.07)
gnl UG Hs#S1731682	1.85	1	112-135(1.85)
gnl UG Hs#S4546034	2.7	3	185-210(2.48) 285-310(0.59) 704-729(2.70)
gnl UG Hs#S2138753	2.11	3	182-210(2.11) 545-570(0.33) 2352-2378(0.88)
gnl UG Hs#S4553545	1.84	2	292-318(1.84) 475-501(0.92)
gnl UG Hs#S1824431	0.17	1	3246-3271(0.17)
gnl UG Hs#S3218918	2.08	2	33-58(2.08) 135-160(1.62)
gnl UG Hs#S10880348	2.09	1	434-457(2.09)
gnl UG Hs#S1727931	1.4	2	105-133(1.40) 910-936(0.34)
gnl UG Hs#S2140575	1.46	1	75-100(1.46)
gnl UG Hs#S2138714	0.84	1	351-376(0.84)
gnl UG Hs#S2293626	1.74	3	346-371(0.81) 716-741(1.74) 778-804(0.50)
gnl UG Hs#S3438925	0.3	2	1122-1150(0.30) 1224-1250(0.08)
gnl UG Hs#S7111552	1.63	2	171-196(1.63) 303-328(0.41)
gnl UG Hs#S1729499	2.07	7	92-117(0.88) 484-509(2.07) 981-1008(0.35) 1131-1156(0.66) 1377-1403(0.17) 1516-1541(0.20) 1633-1658(0.59)
gnl UG Hs#S15631638	0.14	1	923-948(0.14)
gnl UG Hs#S14802382	1.36	1	87-113(1.36)
gnl UG Hs#S5495024	0.65	2	855-879(0.20) 898-924(0.65)
gnl UG Hs#S3220022	1.55	5	59-84(0.93) 180-205(0.46) 355-383(1.55) 798-828(1.24) 912-937(0.62)
gnl UG Hs#S1726994	0.8	1	228-255(0.80)
gnl UG Hs#S4546284	2.3	4	732-757(1.00) 1834-1859(2.30) 2192-2217(1.57) 2737-2762(1.46)
gnl UG Hs#S1730983	0.91	2	331-356(0.91) 439-464(0.08)
gnl UG Hs#S4553474	0.75	1	891-916(0.75)
gnl UG Hs#S2293559	0.72	1	826-851(0.72)
gnl UG Hs#S5978551	1.57	2	831-856(1.57) 1064-1092(1.25)
gnl UG Hs#S2293288	2.46	2	116-141(2.46) 813-841(0.20)
gnl UG Hs#S4827431	0.72	1	159-185(0.72)
gnl UG Hs#S3219984	3.56	3	433-458(1.91) 948-974(3.56) 1474-1499(1.47)
gnl UG Hs#S4839874	2.57	3	251-275(2.16) 690-716(2.57) 744-769(0.25)
gnl UG Hs#S7111014	3.75	11	251-276(2.63) 487-512(0.20) 1357-1384(0.08) 1410-1435(2.92) 1730-1758(1.08) 1768-1795(1.13) 1952-1977(0.97) 2771-2797(0.01) 3099-3124(0.32) 4086-4110(0.29) 4669-4695(3.75)
gnl UG Hs#S2294657	0.96	1	3633-3661(0.96)
gnl UG Hs#S4831151	0.62	1	82-106(0.62)
gnl UG Hs#S1730803	2.97	3	208-233(2.97) 283-306(0.14) 343-369(1.02)
gnl UG Hs#S1727083	1.78	4	105-131(1.78) 1386-1411(0.82) 2092-2118(1.60) 3396-3422(0.41)
gnl UG Hs#S4620996	1.01	1	1793-1821(1.01)
gnl UG Hs#S3881189	0.49	2	732-757(0.07) 985-1011(0.49)
gnl UG Hs#S1730886	1.43	4	134-159(0.30) 295-320(1.43) 512-537(0.59) 540-565(0.33)
gnl UG Hs#S4807330	1.48	3	90-116(0.08) 163-188(1.48) 603-628(0.33)
gnl UG Hs#S1728100	3.39	7	121-146(3.39) 270-296(3.21) 480-505(0.23) 696-721(0.57) 963-989(1.17) 1364-1389(1.26) 1424-1450(1.67)
gnl UG Hs#S1728519	1.53	1	2244-2269(1.53)

gnl UG Hs#S3601675	2.62	2	313-339(2.62) 427-452(2.52)
gnl UG Hs#S5978500	0.23	1	490-516(0.23)
gnl UG Hs#S3219978	2.36	2	585-613(1.03) 1134-1160(2.36)
gnl UG Hs#S2140362	4.11	11	82-107(1.48) 453-478(1.11) 863-889(2.46) 1746-1771(0.50) 2051-2076(4.11) 2374-2402(1.75) 2801-2827(0.76) 3249-3277(3.14) 3281-3305(1.24) 3698-3726(0.35) 3910-3936(2.30)
gnl UG Hs#S4285206	3.43	4	1037-1062(0.07) 1814-1840(0.43) 3086-3111(3.43) 3170-3196(2.53)
gnl UG Hs#S15632677	1.48	1	172-197(1.48)
gnl UG Hs#S3219317	1.56	1	427-452(1.56)
gnl UG Hs#S2139354	2.07	1	327-352(2.07)
gnl UG Hs#S1969157	3.11	1	2044-2069(3.11)
gnl UG Hs#S2294307	4.75	2	109-135(4.75) 144-169(0.23)
gnl UG Hs#S4436334	2.65	2	319-345(2.65) 422-448(2.13)
gnl UG Hs#S1726566	1.75	3	269-294(1.14) 486-514(1.75) 768-795(0.02)
gnl UG Hs#S3219234	4.95	2	460-485(4.95) 636-661(4.04)
gnl UG Hs#S15632428	0.2	1	648-673(0.20)
gnl UG Hs#S2293406	0.62	1	842-867(0.62)
gnl UG Hs#S3219219	0.23	1	368-394(0.23)
gnl UG Hs#S1728538	0.65	4	94-119(0.58) 637-663(0.65) 949-974(0.13) 1530-1555(0.46)
gnl UG Hs#S1732242	2.69	2	174-199(1.57) 206-231(2.69)
gnl UG Hs#S15631746	0.23	1	156-181(0.23)
gnl UG Hs#S1729419	1.88	3	870-896(0.81) 1273-1299(1.88) 1673-1700(0.38)
gnl UG Hs#S1732419	0.72	1	471-496(0.72)
gnl UG Hs#S4631383	1.46	1	1322-1347(1.46)
gnl UG Hs#S2139698	2.23	1	1540-1565(2.23)
gnl UG Hs#S1730088	0.26	1	719-744(0.26)
gnl UG Hs#S3438500	0.32	1	1148-1173(0.32)
gnl UG Hs#S1728905	0.04	1	481-506(0.04)
gnl UG Hs#S3439014	2.43	3	697-723(2.43) 743-767(1.62) 1211-1236(0.06)
gnl UG Hs#S2294333	3.13	8	141-166(2.04) 372-397(1.63) 417-443(0.01) 575-600(3.13) 1998-2023(0.23) 2051-2076(0.13) 2604-2629(2.50) 2866-2892(1.50)
gnl UG Hs#S3219940	2.5	1	486-511(2.50)
gnl UG Hs#S5978426	4.17	1	71-98(4.17)
gnl UG Hs#S1726228	1.63	1	411-436(1.63)
gnl UG Hs#S1729899	0.33	1	321-346(0.33)
gnl UG Hs#S417727	2.72	5	239-266(0.30) 902-927(0.11) 1740-1768(0.84) 1844-1869(2.72) 1870-1896(1.43)
gnl UG Hs#S6693363	2.98	4	222-247(2.30) 423-449(0.69) 1659-1685(0.40) 1838-1866(2.98)
gnl UG Hs#S3438872	1.04	1	573-600(1.04)
gnl UG Hs#S11046695	5.95	1	7-33(5.95)
gnl UG Hs#S3547254	2.3	5	55-80(1.57) 163-189(0.15) 265-290(0.89) 430-455(0.58) 717-742(2.30)
gnl UG Hs#S1727867	0.94	2	445-470(0.94) 858-883(0.34)
gnl UG Hs#S1728560	4.99	3	176-202(4.99) 209-234(0.33) 445-471(2.17)
gnl UG Hs#S3438554	1.4	2	382-407(1.40) 419-447(1.07)
gnl UG Hs#S3220011	5.53	6	484-507(0.87) 1509-1534(0.98) 2014-2041(0.84) 2072-2097(5.53) 3264-3290(0.27) 3515-3541(0.46)
gnl UG Hs#S4619425	0.89	1	1200-1226(0.89)
gnl UG Hs#S1729268	2.97	6	319-344(2.97) 381-406(0.91) 546-571(2.72) 1350-1378(1.40) 1541-1566(0.40) 1595-1621(1.04)
gnl UG Hs#S10832648	5.95	3	1105-1130(5.95) 1445-1473(1.67) 2010-2036(3.56)
gnl UG Hs#S1569494	0.83	6	57-82(0.78) 503-528(0.83) 1779-1807(0.49) 1976-2000(0.43) 2518-2543(0.57) 2633-2656(0.58)
gnl UG Hs#S3439034	1.13	1	528-553(1.13)
gnl UG Hs#S1728207	2.79	3	5-30(1.17) 757-783(2.79) 786-811(1.13)
gnl UG Hs#S4825779	2.99	2	385-411(2.99) 590-615(1.72)
gnl UG Hs#S3219355	5.16	11	289-314(4.55) 599-625(1.17) 1177-1202(2.79) 1351-1376(0.26) 1621-1646(0.72) 1985-2010(0.49) 2204-2230(0.07) 2439-2465(0.01) 3688-3713(1.94) 3745-3768(0.11) 3822-3849(5.16)
gnl UG Hs#S2139451	4.62	3	643-668(4.62) 1171-1196(4.26) 1930-1955(0.72)
gnl UG Hs#S1729718	1.22	1	664-689(1.22)
gnl UG Hs#S7112417	2.04	2	665-690(1.36) 775-798(2.04)
gnl UG Hs#S1730310	0.23	1	340-365(0.23)
gnl UG Hs#S6686662	1.58	3	145-170(0.76) 582-607(1.58) 700-728(0.62)

gnl UG Hs#S1731976	3.1	2 249-277(3.10) 462-488(1.08)
gnl UG Hs#S1824457	5.92	5 366-392(1.26) 837-862(0.23) 1085-1112(2.62) 1405-1431(0.58) 1582-1607(5.92)
gnl UG Hs#S1728535	1.5	2 381-406(1.50) 542-568(0.62)
gnl UG Hs#S15635920	2.31	1 1757-1783(2.31)
gnl UG Hs#S4808262	2.21	1 2990-3015(2.21)
gnl UG Hs#S15638567	1.23	2 938-964(0.40) 1098-1126(1.23)
gnl UG Hs#S11154057	0.72	1 500-527(0.72)
gnl UG Hs#S3987835	0.94	2 1639-1664(0.94) 1729-1755(0.04)
gnl UG Hs#S3619677	0.79	1 1422-1447(0.79)
gnl UG Hs#S1727168	1.5	6 307-334(0.65) 362-387(1.50) 613-641(0.62) 668-693(0.24) 805-831(0.59) 970-996(0.86)
gnl UG Hs#S2294455	2.56	2 102-125(2.56) 383-411(2.53)
gnl UG Hs#S4044878	0.91	1 300-328(0.91)
gnl UG Hs#S2138878	4.5	1 1975-2001(4.50)
gnl UG Hs#S3603852	1.72	3 1434-1459(0.98) 1789-1815(1.72) 1836-1862(0.10)
gnl UG Hs#S1727454	1.98	1 282-308(1.98)
gnl UG Hs#S6682978	3.85	4 609-634(0.57) 1071-1099(3.85) 1168-1194(2.60) 1481-1506(3.62)
gnl UG Hs#S3355655	1.23	2 251-276(1.23) 312-339(0.17)
gnl UG Hs#S3219087	8.15	2 284-310(8.15) 942-967(1.67)
gnl UG Hs#S1731003	0.98	1 189-215(0.98)
gnl UG Hs#S2293333	2.33	1 192-218(2.33)
gnl UG Hs#S1730196	1.04	1 164-189(1.04)
gnl UG Hs#S1727525	0.3	1 709-734(0.30)
gnl UG Hs#S15641130	2.27	6 2821-2846(1.17) 3273-3299(0.68) 4237-4263(0.40) 5338-5363(0.50) 5422-5448(1.08) 5471-5495(2.27)
gnl UG Hs#S2293743	0.25	1 112-137(0.25)
gnl UG Hs#S1727827	0.69	1 903-930(0.69)
gnl UG Hs#S4631187	2.98	3 460-485(2.98) 812-840(2.30) 1240-1266(2.30)
gnl UG Hs#S3547116	1.72	2 155-181(1.72) 362-389(0.88)
gnl UG Hs#S2139148	0.17	1 98-124(0.17)
gnl UG Hs#S14802477	3.76	1 522-550(3.76)
gnl UG Hs#S4623180	2.3	1 2119-2144(2.30)
gnl UG Hs#S14863424	1	3 52-79(0.97) 183-209(0.57) 267-291(1.00)
gnl UG Hs#S1728799	0.16	1 373-398(0.16)
gnl UG Hs#S5978405	1.94	3 146-171(1.94) 272-297(1.53) 302-328(1.36)
gnl UG Hs#S5979245	1.91	1 804-832(1.91)
gnl UG Hs#S4808098	2.3	2 399-424(2.30) 2155-2180(0.62)
gnl UG Hs#S1824471	0.23	1 187-212(0.23)
gnl UG Hs#S1730023	2.53	5 344-369(1.50) 439-465(2.15) 784-809(2.53) 1494-1520(2.44) 1980-2006(0.36)
gnl UG Hs#S2294508	1.16	1 110-135(1.16)
gnl UG Hs#S1728209	0.43	4 205-231(0.43) 1029-1059(0.07) 1541-1566(0.17) 2005-2030(0.11)
gnl UG Hs#S11046676	1.11	2 1446-1473(0.31) 1932-1958(1.11)
gnl UG Hs#S15638847	1.75	2 185-210(1.75) 255-281(1.52)
gnl UG Hs#S3219433	0.36	1 347-373(0.36)
gnl UG Hs#S4554468	1.08	1 241-267(1.08)
gnl UG Hs#S3940104	0.08	1 493-518(0.08)
gnl UG Hs#S1727362	2.04	1 669-694(2.04)
gnl UG Hs#S1728522	0.94	3 425-449(0.94) 559-585(0.59) 798-824(0.82)
gnl UG Hs#S3972969	3.11	9 158-183(0.46) 215-240(1.43) 251-278(0.56) 377-402(0.35) 778-804(0.13) 1673-1699(0.98) 1791-1816(3.11) 2313-2337(1.75) 2652-2680(2.98)
gnl UG Hs#S3438391	0.79	1 341-367(0.79)
gnl UG Hs#S4396074	4.39	1 105-130(4.39)
gnl UG Hs#S2293860	0.3	1 693-718(0.30)
gnl UG Hs#S4044890	0.76	1 566-592(0.76)
gnl UG Hs#S4820138	1.52	2 253-278(1.52) 1346-1373(1.07)
gnl UG Hs#S3438737	1.07	2 1090-1118(0.40) 1419-1444(1.07)
gnl UG Hs#S15631470	1.8	3 617-642(0.62) 1134-1162(1.34) 1230-1256(1.80)

gnl UG Hs#S3547082	0.94	1	321-349(0.94)
gnl UG Hs#S3438507	0.65	1	43-68(0.65)
gnl UG Hs#S4807692	1.18	1	710-735(1.18)
gnl UG Hs#S1727229	1.91	2	147-172(1.91) 628-656(1.88)
gnl UG Hs#S3601753	3.2	3	761-786(3.20) 1354-1379(1.00) 1601-1627(1.94)
gnl UG Hs#S7113187	0.84	1	12-35(0.84)
gnl UG Hs#S10832567	0.3	1	780-805(0.30)
gnl UG Hs#S14802307	0.56	2	283-314(0.56) 565-590(0.23)
gnl UG Hs#S2139040	2.19	3	618-642(0.26) 2897-2922(2.19) 4275-4301(0.76)
gnl UG Hs#S2293809	0.75	1	133-158(0.75)
gnl UG Hs#S1732341	3.3	9	178-203(2.82) 975-1000(2.32) 1259-1284(1.40) 1604-1630(3.30) 1653-1678(1.03) 1918-1944(0.75) 2088-2114(0.36) 2117-2142(1.73) 2201-2225(0.20)
gnl UG Hs#S2140223	1.36	1	181-207(1.36)
gnl UG Hs#S1727296	0.49	1	455-483(0.49)
gnl UG Hs#S1729016	0.72	1	62-87(0.72)
gnl UG Hs#S5978585	0.58	1	1732-1758(0.58)
gnl UG Hs#S3601620	2.08	5	552-579(0.58) 1787-1812(1.72) 1853-1879(0.28) 1883-1908(2.08) 1975-2003(0.75)
gnl UG Hs#S1726610	1.19	1	909-939(1.19)
gnl UG Hs#S2139573	1.5	1	1289-1314(1.50)
gnl UG Hs#S2139206	1.89	1	153-178(1.89)
gnl UG Hs#S10832312	0.35	2	341-369(0.35) 2057-2082(0.30)
gnl UG Hs#S1727101	2.82	8	393-418(0.53) 419-445(2.82) 600-625(1.62) 698-726(2.17) 917-942(2.17) 1005-1030(0.72) 1328-1353(2.72) 1741-1767(2.79)
gnl UG Hs#S14812397	3.56	1	1305-1330(3.56)
gnl UG Hs#S5931220	5.4	2	646-672(5.40) 1362-1387(0.50)
gnl UG Hs#S4807826	1.36	1	461-487(1.36)
gnl UG Hs#S1727328	0.33	1	782-808(0.33)
gnl UG Hs#S1727642	1.48	2	283-308(1.48) 544-572(1.26)
gnl UG Hs#S2140690	4.62	8	371-397(4.62) 1733-1761(0.81) 1820-1846(2.50) 2437-2462(0.58) 3190-3218(0.45) 3700-3724(0.29) 3872-3897(0.20) 3968-3996(1.45)
gnl UG Hs#S5979237	2.4	3	513-539(2.40) 959-985(0.30) 1055-1080(0.76)
gnl UG Hs#S1731772	1.17	1	629-654(1.17)
gnl UG Hs#S1824513	2.2	5	91-117(1.82) 238-264(0.08) 311-336(1.48) 751-776(0.33) 816-841(2.20)
gnl UG Hs#S1728144	0.67	1	639-665(0.67)
gnl UG Hs#S2139510	2.85	6	69-94(2.85) 828-853(1.33) 1797-1823(2.30) 2027-2055(1.26) 2173-2200(0.14) 2243-2268(0.46)
gnl UG Hs#S4612980	0.65	1	139-165(0.65)
gnl UG Hs#S5979230	5.67	2	268-294(5.67) 348-376(1.08)
gnl UG Hs#S2140234	0.75	1	125-152(0.75)
gnl UG Hs#S3219244	2.39	2	104-129(1.40) 224-251(2.39)
gnl UG Hs#S2139057	2.72	2	298-322(2.72) 488-514(2.72)
gnl UG Hs#S4553512	0.55	1	120-148(0.55)
gnl UG Hs#S4823544	2.21	1	83-106(2.21)
gnl UG Hs#S2293360	0.57	2	25-50(0.57) 976-1002(0.17)
gnl UG Hs#S14272940	0.5	1	3083-3108(0.50)
gnl UG Hs#S5860348	0.11	1	762-787(0.11)
gnl UG Hs#S2293251	3.92	5	947-971(0.53) 989-1014(3.92) 1144-1172(0.88) 1230-1255(2.94) 1827-1854(1.26)
gnl UG Hs#S3803692	5.26	6	162-187(0.23) 426-452(2.79) 652-679(1.52) 1023-1048(5.26) 1581-1604(0.25) 1672-1698(0.08)
gnl UG Hs#S1731223	4.11	10	797-824(0.94) 1451-1479(1.88) 1822-1847(1.30) 1915-1940(2.04) 2811-2836(0.53) 3350-3376(0.10) 3385-3410(1.13) 4076-4102(1.76) 4215-4241(0.30) 4286-4311(4.11)
gnl UG Hs#S4812395	1.39	3	108-134(1.39) 1002-1028(0.67) 1264-1289(1.16)
gnl UG Hs#S2293912	3.69	1	176-201(3.69)
gnl UG Hs#S15632494	4.5	2	46-71(0.11) 99-124(4.50)
gnl UG Hs#S4822110	0.66	2	1465-1491(0.01) 1904-1930(0.66)
gnl UG Hs#S1727414	1.41	1	93-118(1.41)
gnl UG Hs#S1726893	0.24	1	180-206(0.24)
gnl UG Hs#S11154067	3.62	6	216-241(3.62) 324-353(1.32) 451-478(0.83) 553-581(1.20) 913-938(0.91) 1032-1058(0.92)
gnl UG Hs#S4045639	1.91	2	400-426(0.08) 535-563(1.91)
gnl UG Hs#S4820170	0.04	1	108-134(0.04)

gnl UG Hs#S15637876	5.07	5	180-205(3.14) 458-483(2.72) 752-777(5.07) 983-1011(0.49) 1278-1303(0.69)
gnl UG Hs#S4823767	2.63	1	493-518(2.63)
gnl UG Hs#S1726214	2.27	2	58-84(2.27) 359-384(0.30)
gnl UG Hs#S2294124	3.71	2	878-903(3.71) 1914-1939(0.57)
gnl UG Hs#S7111934	1.36	2	736-764(0.30) 937-962(1.36)
gnl UG Hs#S4545975	2.94	4	542-567(2.08) 641-666(2.94) 823-848(0.36) 1392-1417(1.14)
gnl UG Hs#S2294214	0.71	4	39-65(0.34) 92-118(0.58) 293-321(0.08) 819-842(0.71)
gnl UG Hs#S1731331	0.13	1	1366-1392(0.13)
gnl UG Hs#S1726724	0.04	1	319-345(0.04)
gnl UG Hs#S10832691	0.5	2	121-146(0.50) 163-190(0.22)
gnl UG Hs#S4807795	0.04	1	524-549(0.04)
gnl UG Hs#S1244972	1.94	1	2866-2892(1.94)
gnl UG Hs#S2138995	3.69	4	349-375(0.76) 552-576(0.11) 926-952(3.69) 1251-1278(1.26)
gnl UG Hs#S4824869	3.72	11	113-139(0.23) 617-642(1.72) 708-733(2.26) 823-849(1.04) 977-1002(3.39) 1046-1071(0.30) 1145-1169(3.43) 1269-1294(0.23) 1298-1323(0.97) 1762-1787(1.30) 2089-2114(3.72)
gnl UG Hs#S2293534	0.4	1	532-558(0.40)
gnl UG Hs#S5978662	2.59	3	641-666(0.91) 1002-1025(0.37) 1722-1750(2.59)
gnl UG Hs#S4824657	2.56	2	520-546(1.36) 613-639(2.56)
gnl UG Hs#S1729054	1.58	2	811-836(0.24) 947-972(1.58)
gnl UG Hs#S2140378	2.76	7	130-157(0.44) 221-246(1.81) 256-281(1.26) 941-966(1.19) 1010-1036(2.76) 1234-1262(1.07) 1375-1402(1.21)
gnl UG Hs#S3987157	1.94	2	545-570(0.30) 609-634(1.94)
gnl UG Hs#S1824531	2.4	1	163-191(2.40)
gnl UG Hs#S2139638	5.14	5	560-583(0.60) 1892-1920(0.62) 1990-2015(2.33) 2179-2205(5.14) 2975-3001(1.67)
gnl UG Hs#S5978632	1.94	3	421-449(1.29) 1429-1454(0.11) 2135-2161(1.94)
gnl UG Hs#S10832128	0.04	1	1549-1574(0.04)
gnl UG Hs#S2139659	5.3	3	894-919(0.72) 1879-1904(5.30) 2487-2515(1.01)
gnl UG Hs#S4392145	2.16	10	594-619(0.52) 698-724(0.72) 929-954(2.16) 1093-1119(0.59) 1156-1180(0.28) 1194-1220(0.72) 1226-1251(0.94) 2068-2098(2.03) 2762-2787(2.04) 2958-2983(1.17)
gnl UG Hs#S10832693	2.71	1	606-631(2.71)
gnl UG Hs#S2139456	1.4	1	209-235(1.40)
gnl UG Hs#S15631441	2.56	2	75-99(2.56) 371-396(1.72)
gnl UG Hs#S2139668	1.82	3	820-845(1.75) 2191-2216(0.44) 4089-4114(1.82)
gnl UG Hs#S4822797	1.2	1	139-164(1.20)
gnl UG Hs#S2140596	0.62	1	14-39(0.62)
gnl UG Hs#S1727243	3.3	1	14-42(3.30)
gnl UG Hs#S3220235	2.13	4	119-145(2.13) 153-178(0.76) 182-208(0.08) 372-400(1.23)
gnl UG Hs#S2294296	0.53	1	36-62(0.53)
gnl UG Hs#S2293276	1.05	2	983-1008(0.33) 1320-1347(1.05)
gnl UG Hs#S5978387	0.85	1	104-131(0.85)
gnl UG Hs#S1730389	0.91	1	604-632(0.91)
gnl UG Hs#S1729908	0.2	1	106-131(0.20)
gnl UG Hs#S15631730	2.26	3	46-74(2.26) 89-115(2.04) 540-566(0.27)
gnl UG Hs#S4435743	2.23	1	1395-1421(2.23)
gnl UG Hs#S1730362	0.85	3	308-334(0.71) 1274-1299(0.63) 1400-1426(0.85)
gnl UG Hs#S3993263	1.98	3	722-750(1.30) 1265-1293(0.73) 1494-1520(1.98)
gnl UG Hs#S5978667	0.72	1	236-262(0.72)
gnl UG Hs#S11046722	4.04	5	244-269(4.04) 341-367(0.12) 1142-1167(1.04) 1207-1232(0.40) 1698-1724(1.26)
gnl UG Hs#S2293989	0.27	1	1437-1462(0.27)
gnl UG Hs#S4395975	1.24	2	1334-1359(1.24) 1812-1837(0.13)
gnl UG Hs#S3619174	2.08	1	112-138(2.08)
gnl UG Hs#S1728575	3.91	6	401-426(2.62) 1173-1199(0.28) 2268-2293(3.08) 2422-2447(3.91) 2584-2612(1.85) 3257-3282(0.62)
gnl UG Hs#S1731208	1.85	5	104-129(0.74) 335-360(1.85) 598-626(0.96) 635-659(0.45) 1298-1326(1.49)
gnl UG Hs#S6682959	1.58	7	240-266(0.46) 668-692(0.56) 1234-1259(1.23) 1734-1759(0.58) 2249-2275(0.95) 2700-2726(1.58) 2864-2890(0.65)
gnl UG Hs#S1728880	0.01	1	168-194(0.01)
gnl UG Hs#S5978434	0.84	1	972-998(0.84)
gnl UG Hs#S1732119	6.04	8	333-357(1.30) 394-420(2.40) 723-748(0.91) 893-919(0.46) 998-1023(1.26) 1095-1121(6.04) 1170-1196(0.17) 1232-1261(0.23)

gnl UG Hs#S1731594	3.56	5	831-856(0.07) 889-915(0.01) 1558-1586(0.66) 2060-2087(3.56) 2381-2406(2.59)
gnl UG Hs#S4820140	0.36	1	358-383(0.36)
gnl UG Hs#S2294193	0.4	1	289-314(0.40)
gnl UG Hs#S342511	1.98	1	670-695(1.98)
gnl UG Hs#S4553559	0.31	1	573-596(0.31)
gnl UG Hs#S1727763	0.3	1	100-125(0.30)
gnl UG Hs#S1730167	2.08	2	57-82(0.20) 659-685(2.08)
gnl UG Hs#S2139366	2.79	1	118-144(2.79)
gnl UG Hs#S1731848	1.59	7	574-599(0.08) 814-839(0.94) 862-887(0.03) 939-964(0.53) 1179-1204(0.30) 1532-1560(1.59) 1782-1808(0.04)
gnl UG Hs#S4812687	1.39	1	108-134(1.39)
gnl UG Hs#S2139060	2.17	1	439-464(2.17)
gnl UG Hs#S2139681	1.4	2	169-194(1.40) 238-264(0.23)
gnl UG Hs#S1728648	1.81	3	343-368(0.88) 1648-1671(0.11) 1873-1901(1.81)
gnl UG Hs#S3814593	2.24	6	121-147(0.76) 205-230(0.81) 517-542(2.24) 631-657(1.21) 684-710(2.13) 948-974(0.17)
gnl UG Hs#S1729290	5.07	2	119-144(5.07) 254-280(3.55)
gnl UG Hs#S1731757	0.3	2	434-462(0.04) 662-687(0.30)
gnl UG Hs#S2293518	1.26	3	349-374(0.07) 383-408(1.26) 1213-1238(0.07)
gnl UG Hs#S15730307	0.13	1	498-523(0.13)
gnl UG Hs#S1727594	1.08	2	1394-1419(0.59) 1828-1855(1.08)
gnl UG Hs#S1729392	3.32	1	431-456(3.32)
gnl UG Hs#S1728521	0.9	2	72-100(0.90) 366-392(0.17)
gnl UG Hs#S2140048	1.04	1	180-208(1.04)
gnl UG Hs#S4813338	3.97	1	760-783(3.97)
gnl UG Hs#S4285033	2.56	4	300-325(0.50) 894-918(0.40) 1034-1059(2.56) 1184-1210(1.01)
gnl UG Hs#S3322090	1.36	3	384-412(1.36) 474-500(0.87) 1143-1169(0.20)
gnl UG Hs#S2293438	0.4	1	5-31(0.40)
gnl UG Hs#S3619539	1.04	2	183-207(1.04) 237-263(0.11)
gnl UG Hs#S4815642	0.13	1	1021-1046(0.13)
gnl UG Hs#S1731961	0.63	1	153-180(0.63)
gnl UG Hs#S15730315	1.67	3	249-275(1.67) 373-398(0.33) 451-476(0.63)
gnl UG Hs#S1726953	0.88	1	364-389(0.88)
gnl UG Hs#S4827248	0.85	1	70-95(0.85)
gnl UG Hs#S6091857	1.5	1	75-101(1.50)
gnl UG Hs#S1729865	3.46	2	719-745(2.49) 938-963(3.46)
gnl UG Hs#S3988048	0.59	3	1209-1235(0.59) 1858-1885(0.04) 2195-2220(0.04)
gnl UG Hs#S1726528	1.17	3	192-217(0.33) 385-411(0.91) 1216-1239(1.17)
gnl UG Hs#S1727159	0.5	1	9-34(0.50)
gnl UG Hs#S4554595	5.89	5	1090-1116(0.04) 1161-1187(0.36) 1310-1335(0.26) 1402-1427(2.20) 1439-1464(5.89)
gnl UG Hs#S3355584	1.98	1	455-483(1.98)
gnl UG Hs#S3219576	1.33	1	34-59(1.33)
gnl UG Hs#S1729625	4.39	7	219-249(1.47) 625-650(2.53) 1917-1942(2.71) 2086-2111(1.87) 2143-2168(0.72) 2567-2592(4.39) 2535-2560(2.30)
gnl UG Hs#S4828440	1.14	1	5-30(1.14)
gnl UG Hs#S3547096	1.64	2	382-410(1.64) 426-451(0.79)
gnl UG Hs#S4829517	0.91	1	1380-1405(0.91)
gnl UG Hs#S2138857	0.33	2	16-41(0.23) 439-469(0.33)
gnl UG Hs#S4284745	1.01	2	242-269(1.01) 344-369(0.87)
gnl UG Hs#S1728160	1.05	1	204-230(1.05)
gnl UG Hs#S2138750	1.89	2	279-305(1.48) 596-621(1.89)
gnl UG Hs#S3619623	3.95	6	35-60(3.95) 107-133(2.99) 456-481(0.95) 1031-1059(1.40) 1367-1390(1.49) 1531-1556(0.91)
gnl UG Hs#S3438722	3.28	4	146-171(0.08) 391-419(0.71) 425-453(2.07) 718-744(3.28)
gnl UG Hs#S2649396	3.55	5	380-405(2.49) 1803-1828(2.91) 2121-2146(1.04) 2481-2509(3.13) 2585-2611(3.55)
gnl UG Hs#S6163283	3.62	2	2130-2155(1.11) 2524-2550(3.62)
gnl UG Hs#S1731514	0.3	1	580-605(0.30)
gnl UG Hs#S1726289	4.01	4	1560-1586(1.50) 1607-1632(0.20) 1899-1924(2.04) 2039-2064(4.01)

gnl UG Hs#S3355517	1.13	1	202-228(1.13)
gnl UG Hs#S4554631	2.94	8	857-882(2.94) 1082-1107(0.34) 1498-1523(1.13) 1566-1594(0.36) 1620-1645(1.02) 1795-1820(0.07) 2090-2115(0.11) 2223-2251(2.40)
gnl UG Hs#S7112245	0.72	2	1799-1824(0.72) 2108-2133(0.72)
gnl UG Hs#S1729257	1.78	2	241-266(1.68) 402-427(1.78)
gnl UG Hs#S4820339	0.69	2	1289-1315(0.69) 1667-1692(0.33)
gnl UG Hs#S4813442	2.76	2	507-533(0.02) 2071-2097(2.76)
gnl UG Hs#S4554574	0.13	1	467-492(0.13)
gnl UG Hs#S4435174	0.14	1	1555-1581(0.14)
gnl UG Hs#S2140549	3.13	1	616-644(3.13)
gnl UG Hs#S1730193	1.23	1	57-83(1.23)
gnl UG Hs#S1727395	1.91	5	289-314(1.53) 371-399(1.30) 644-672(1.03) 787-810(0.41) 1041-1068(1.91)
gnl UG Hs#S4546224	0.57	1	3135-3163(0.57)
gnl UG Hs#S3219819	0.91	1	162-187(0.91)
gnl UG Hs#S3219395	1.17	1	1462-1487(1.17)
gnl UG Hs#S15631743	2.53	5	367-394(1.30) 400-428(0.30) 567-593(1.82) 676-701(0.26) 949-974(2.53)
gnl UG Hs#S1732349	1.76	2	784-809(0.45) 954-979(1.76)
gnl UG Hs#S3219148	0.97	4	637-662(0.46) 696-722(0.57) 928-953(0.97) 982-1007(0.91)
gnl UG Hs#S3603826	1.39	3	34-60(1.01) 489-515(0.82) 904-929(1.39)
gnl UG Hs#S3218928	0.4	1	1588-1615(0.40)
gnl UG Hs#S7110553	3.04	7	275-299(0.17) 497-522(3.04) 536-561(1.52) 930-957(1.83) 1316-1342(0.13) 2039-2064(2.08) 2291-2316(1.17)
gnl UG Hs#S4823607	1.14	4	350-375(0.34) 478-503(0.50) 658-682(1.14) 2552-2577(1.08)
gnl UG Hs#S11046584	4.4	3	241-267(1.01) 491-514(0.20) 939-967(4.40)
gnl UG Hs#S2140488	0.91	2	398-423(0.65) 434-460(0.91)
gnl UG Hs#S1824552	3.82	2	136-159(1.81) 387-413(3.82)
gnl UG Hs#S14802405	2.46	2	503-528(1.13) 1488-1513(2.46)
gnl UG Hs#S2139389	1.14	2	428-453(1.14) 468-494(0.01)
gnl UG Hs#S1731169	2.08	1	1691-1719(2.08)
gnl UG Hs#S4819111	2.07	2	149-174(1.23) 866-891(2.07)
gnl UG Hs#S1727981	1.3	1	102-128(1.30)
gnl UG Hs#S3619232	0.87	1	143-168(0.87)
gnl UG Hs#S4807745	1.92	2	578-606(0.04) 888-916(1.92)
gnl UG Hs#S15115850	1.18	3	203-228(1.18) 590-615(0.98) 741-766(0.63)
gnl UG Hs#S5978583	1.5	1	214-239(1.50)
gnl UG Hs#S3219835	2.27	4	165-190(0.91) 284-310(2.27) 442-468(2.23) 564-589(0.07)
gnl UG Hs#S1728086	1.37	5	75-102(0.07) 355-380(0.72) 672-698(0.27) 930-955(1.37) 963-990(1.13)
gnl UG Hs#S4825328	1.33	3	31-55(0.62) 505-531(1.33) 1088-1113(0.36)
gnl UG Hs#S3547070	0.8	3	216-244(0.40) 325-353(0.59) 430-455(0.80)
gnl UG Hs#S1727443	3.79	7	182-207(3.11) 1157-1183(1.89) 1551-1577(0.20) 1683-1708(3.01) 2118-2143(0.43) 2178-2203(3.79) 2313-2338(2.49)
gnl UG Hs#S4435390	2.2	2	198-224(2.20) 614-640(2.20)
gnl UG Hs#S1729941	2.3	3	50-75(1.26) 410-435(2.30) 630-655(0.97)
gnl UG Hs#S1824325	2.47	1	726-752(2.47)
gnl UG Hs#S1727580	5.5	2	884-909(2.78) 1747-1772(5.50)
gnl UG Hs#S1731835	2.04	2	825-851(1.55) 953-978(2.04)
gnl UG Hs#S15632342	2.4	2	18-42(2.40) 231-258(0.26)
gnl UG Hs#S11154195	2.4	1	468-495(2.40)
gnl UG Hs#S3619210	0.72	1	458-483(0.72)
gnl UG Hs#S2294156	0.89	2	415-440(0.19) 472-497(0.89)
gnl UG Hs#S2140003	0.2	1	74-99(0.20)
gnl UG Hs#S3973083	2.01	1	104-131(2.01)
gnl UG Hs#S3438585	0.04	1	343-369(0.04)
gnl UG Hs#S3219985	1.13	1	364-390(1.13)
gnl UG Hs#S4630840	2.77	5	526-551(2.77) 834-859(1.34) 1320-1345(1.46) 1658-1683(1.40) 1907-1932(1.98)
gnl UG Hs#S4612737	3.2	7	579-604(1.39) 783-808(3.20) 822-847(0.07) 1073-1098(1.46) 1105-1130(2.04) 1287-1312(1.07) 1801-1829(0.30)
gnl UG Hs#S4001875	3.36	5	117-144(3.01) 330-355(3.36) 437-462(0.14) 764-789(0.50) 1023-1049(0.30)

gnl UG Hs#S2293950	2.4	2 84-109(0.13) 244-269(2.40)
gnl UG Hs#S4044971	2.17	7 32-57(1.11) 1085-1111(1.69) 1241-1266(0.36) 1568-1594(2.17) 1760-1786(0.48) 2185-2213(1.72) 2607-2632(1.40)
gnl UG Hs#S4807855	2.2	2 23-51(0.03) 612-637(2.20)
gnl UG Hs#S1569567	1.89	2 94-121(1.43) 159-184(1.89)
gnl UG Hs#S15631438	3.14	9 150-175(2.11) 863-890(0.36) 1474-1500(2.31) 1667-1692(1.14) 2034-2060(0.50) 2074-2100(3.14) 2175-2199(2.04) 2505-2528(2.43) 2722-2748(0.18)
gnl UG Hs#S1728632	0.59	1 1227-1253(0.59)
gnl UG Hs#S2293327	1.08	1 282-308(1.08)
gnl UG Hs#S4819142	3.23	15 180-207(0.82) 384-412(1.49) 633-658(2.00) 793-815(0.52) 953-976(0.49) 1142-1167(0.74) 1342-1368(0.24) 1402-1427(2.26) 1546-1571(0.67) 1708-1734(3.23) 1834-1859(1.65) 2325-2350(1.72) 271
gnl UG Hs#S2139894	1.94	1 147-172(1.94)
gnl UG Hs#S1730251	2.98	2 24-49(2.72) 106-131(2.98)
gnl UG Hs#S7110476	0.39	3 454-479(0.39) 840-865(0.08) 903-928(0.29)
gnl UG Hs#S1729224	6.65	1 62-87(6.65)
gnl UG Hs#S3355588	0.08	1 577-601(0.08)
gnl UG Hs#S1731427	1.76	2 1240-1267(0.40) 1810-1836(1.76)
gnl UG Hs#S4824914	0.07	1 1900-1925(0.07)
gnl UG Hs#S3439168	0.26	1 941-967(0.26)
gnl UG Hs#S4809885	0.07	1 263-286(0.07)
gnl UG Hs#S2138876	3.69	1 52-78(3.69)
gnl UG Hs#S1729394	3.73	2 385-410(3.73) 640-665(0.62)
gnl UG Hs#S3219498	2.11	2 488-515(0.34) 1717-1742(2.11)
gnl UG Hs#S4554650	1.5	3 227-251(0.08) 263-289(0.65) 311-337(1.50)
gnl UG Hs#S4630969	0.2	1 584-609(0.20)
gnl UG Hs#S4545937	2.89	2 228-253(2.89) 459-485(1.66)
gnl UG Hs#S2139334	0.28	1 248-274(0.28)
gnl UG Hs#S1728780	0.84	1 1-26(0.84)
gnl UG Hs#S1730880	4.33	2 510-538(0.72) 1142-1167(4.33)
gnl UG Hs#S4807562	2.44	4 52-77(1.61) 1265-1290(1.15) 1833-1859(2.44) 2067-2092(0.67)
gnl UG Hs#S1728089	0.08	1 120-143(0.08)
gnl UG Hs#S2293356	3.66	5 137-162(0.07) 304-332(3.66) 446-472(0.49) 560-585(0.84) 906-932(0.05)
gnl UG Hs#S11046598	4.34	15 586-612(4.34) 1316-1343(0.63) 1405-1431(3.41) 2563-2588(1.40) 2683-2711(0.39) 3123-3148(2.43) 3325-3351(0.13) 3438-3463(0.43) 4087-4113(3.30) 4216-4241(1.84) 4593-4619(1.34) 4884-4906
gnl UG Hs#S2139764	2.3	3 48-73(2.30) 160-185(1.33) 191-216(1.16)
gnl UG Hs#S7111732	4.82	4 408-433(4.82) 376-402(0.94) 1225-1250(3.40) 2083-2109(3.18)
gnl UG Hs#S2139959	1.04	1 17-43(1.04)
gnl UG Hs#S4841540	2.04	1 41-66(2.04)
gnl UG Hs#S2139537	2.18	3 647-674(0.43) 1116-1142(2.18) 1732-1757(0.46)
gnl UG Hs#S4823761	0.08	1 780-808(0.08)
gnl UG Hs#S1730791	2.88	5 337-362(0.58) 1130-1155(0.76) 2080-2106(0.91) 2434-2461(2.88) 3135-3161(0.91)
gnl UG Hs#S2139423	3.3	1 3558-3583(3.30)
gnl UG Hs#S377	1.89	3 662-687(0.20) 800-827(1.89) 850-875(0.66)
gnl UG Hs#S5495051	0.23	1 54-77(0.23)
gnl UG Hs#S2139644	3.2	4 253-280(0.03) 1232-1258(0.17) 3647-3675(0.52) 4875-4900(3.20)
gnl UG Hs#S7111628	1.2	1 1878-1904(1.20)
gnl UG Hs#S4046154	1.79	5 403-429(0.43) 1296-1323(0.23) 1364-1389(0.26) 1424-1449(1.79) 1631-1656(1.07)
gnl UG Hs#S14272719	3.6	3 1259-1287(0.75) 1405-1427(0.16) 2046-2072(3.60)
gnl UG Hs#S1731061	1.53	2 18-43(1.20) 45-70(1.53)
gnl UG Hs#S4807526	0.84	2 40-66(0.84) 188-213(0.20)
gnl UG Hs#S1730476	0.17	1 355-380(0.17)
gnl UG Hs#S3219094	2.26	1 185-210(2.26)
gnl UG Hs#S2139014	0.23	1 303-329(0.23)
gnl UG Hs#S4554614	1.68	1 118-143(1.68)
gnl UG Hs#S1729097	2.13	1 719-744(2.13)
gnl UG Hs#S4621033	1.13	3 571-596(0.97) 1914-1943(0.74) 2100-2125(1.13)
gnl UG Hs#S3601707	0.04	2 259-287(0.04) 325-353(0.04)
gnl UG Hs#S1731413	0.5	1 89-114(0.50)

gnl UG Hs#S4614384	1.2	1	350-378(1.20)
gnl UG Hs#S2293408	1.18	6	543-571(0.49) 1000-1025(0.23) 1465-1488(1.18) 1515-1540(0.98) 1557-1584(0.43) 1663-1690(0.10)
gnl UG Hs#S4817839	2.4	4	270-293(1.43) 1085-1110(0.62) 1152-1177(2.40) 1835-1860(0.72)
gnl UG Hs#S4631499	0.2	1	580-608(0.20)
gnl UG Hs#S15633566	2.08	2	485-511(0.40) 1632-1660(2.08)
gnl UG Hs#S4045765	0.5	2	40-66(0.50) 359-385(0.26)
gnl UG Hs#S4554541	3.85	2	303-328(3.85) 361-385(0.49)
gnl UG Hs#S2293956	2.62	4	276-302(0.89) 784-812(1.33) 870-895(2.62) 1261-1287(1.00)
gnl UG Hs#S4615708	0.17	1	1520-1545(0.17)
gnl UG Hs#S4283951	3.43	1	460-486(3.43)
gnl UG Hs#S2139988	3.04	2	620-645(1.53) 734-759(3.04)
gnl UG Hs#S2293278	2.43	2	600-626(0.04) 904-932(2.43)
gnl UG Hs#S15636059	2.72	2	1740-1764(2.72) 1930-1956(2.72)
gnl UG Hs#S10832694	0.2	1	73-101(0.20)
gnl UG Hs#S1728918	1.72	1	83-108(1.72)
gnl UG Hs#S4823007	1.84	2	222-248(1.62) 845-871(1.84)
gnl UG Hs#S1729583	1.67	1	611-636(1.67)
gnl UG Hs#S4821098	3.66	3	45-71(0.10) 1441-1467(3.66) 1719-1745(2.40)
gnl UG Hs#S3973049	8.2	9	74-102(3.03) 43-68(0.23) 244-270(2.60) 916-941(4.96) 1165-1190(1.21) 1531-1554(1.10) 1742-1770(8.20) 1974-2003(0.30) 2426-2454(0.02)
gnl UG Hs#S3905631	1.24	2	79-104(1.24) 1045-1073(0.85)
gnl UG Hs#S2294483	0.37	1	2211-2236(0.37)
gnl UG Hs#S1729226	0.12	1	261-287(0.12)
gnl UG Hs#S15115733	0.04	1	641-669(0.04)
gnl UG Hs#S2293506	5.72	1	38-63(5.72)
gnl UG Hs#S5978427	0.16	1	200-225(0.16)
gnl UG Hs#S12743854	0.79	3	738-764(0.30) 873-898(0.72) 903-929(0.79)
gnl UG Hs#S6158968	2.78	6	638-666(0.47) 1026-1055(0.27) 1990-2015(1.43) 2139-2164(2.78) 2177-2202(2.52) 2301-2327(0.43)
gnl UG Hs#S2293385	1.87	3	192-217(0.01) 1266-1292(0.72) 1430-1455(1.87)
gnl UG Hs#S5978443	4.08	3	172-198(4.08) 272-297(0.17) 979-1007(2.81)
gnl UG Hs#S14802360	1.66	1	254-282(1.66)
gnl UG Hs#S2139961	2.38	1	202-227(2.38)
gnl UG Hs#S1729971	0.48	2	1489-1514(0.08) 1545-1570(0.48)
gnl UG Hs#S10832039	0.71	1	69-95(0.71)
gnl UG Hs#S2139746	1.98	1	834-860(1.98)
gnl UG Hs#S3542648	0.4	1	458-484(0.40)
gnl UG Hs#S3881173	0.98	1	803-828(0.98)
gnl UG Hs#S2139234	1.65	2	272-297(0.20) 359-384(1.65)
gnl UG Hs#S15638173	1.23	1	448-472(1.23)
gnl UG Hs#S3438339	4.2	8	264-290(0.40) 300-326(0.57) 808-833(0.18) 932-957(0.74) 1202-1227(0.84) 1268-1293(2.17) 3107-3131(4.20) 3168-3193(2.98)
gnl UG Hs#S1728141	0.04	1	73-101(0.04)
gnl UG Hs#S12743763	2.23	1	483-509(2.23)
gnl UG Hs#S1731332	1.39	4	265-290(1.39) 1163-1188(1.22) 1342-1367(0.05) 1383-1408(0.05)
gnl UG Hs#S15640916	2.08	2	909-935(2.08) 969-994(0.48)
gnl UG Hs#S4824311	4.34	8	886-913(0.75) 1268-1296(0.03) 1762-1787(0.30) 1804-1830(3.01) 1851-1877(4.34) 1894-1918(3.62) 1933-1959(1.43) 2411-2437(2.01)
gnl UG Hs#S5979227	2.31	1	299-322(2.31)
gnl UG Hs#S3803693	3.53	3	293-318(3.53) 348-374(0.17) 593-618(1.13)
gnl UG Hs#S2293655	2.82	1	432-457(2.82)
gnl UG Hs#S1731016	0.55	1	278-303(0.55)
gnl UG Hs#S1731057	3.3	4	11-37(3.30) 57-80(0.36) 154-180(2.23) 210-235(1.72)
gnl UG Hs#S1727617	0.98	2	794-819(0.55) 909-934(0.98)
gnl UG Hs#S15641760	3.62	13	51-77(2.43) 85-110(2.82) 338-363(1.76) 435-460(1.89) 474-499(3.62) 1046-1071(0.14) 1296-1322(0.59) 1434-1459(0.17) 1955-1983(0.81) 2175-2200(0.94) 2231-2257(0.11) 2362-2390(0.49) 2972-3
gnl UG Hs#S1726696	0.8	1	1109-1137(0.80)
gnl UG Hs#S5979254	1.5	7	478-505(0.26) 589-614(0.58) 2882-2908(0.17) 2979-3007(0.68) 3130-3159(1.50) 4021-4046(1.30) 4303-4328(0.04)
gnl UG Hs#S3218957	2.82	1	1490-1515(2.82)

gnl UG Hs#S2294375	0.94	1	440-465(0.94)
gnl UG Hs#S2139650	3.78	5	19-44(1.98) 1305-1331(3.78) 1697-1725(0.16) 2345-2370(0.79) 2387-2413(1.50)
gnl UG Hs#S1729712	2.46	3	129-155(1.92) 305-331(0.62) 601-626(2.46)
gnl UG Hs#S3601864	0.83	1	797-823(0.83)
gnl UG Hs#S10832338	2.65	2	285-310(2.65) 436-461(0.82)
gnl UG Hs#S1731399	1.91	2	840-866(1.91) 1011-1036(0.30)
gnl UG Hs#S15633046	3.27	9	875-901(0.10) 965-991(2.72) 1103-1131(0.81) 1891-1917(3.27) 1981-2006(1.67) 2588-2613(2.36) 2956-2984(0.40) 3004-3029(1.23) 3201-3227(0.82)
gnl UG Hs#S3973033	1.58	1	95-120(1.58)
gnl UG Hs#S1824468	2.99	1	663-689(2.99)
gnl UG Hs#S7113176	1.53	1	433-458(1.53)
gnl UG Hs#S4814693	3.46	5	145-170(0.85) 729-754(3.46) 939-964(0.30) 1044-1071(0.42) 2611-2636(2.75)
gnl UG Hs#S1729592	1.98	2	200-225(1.98) 1035-1063(0.01)
gnl UG Hs#S15730252	2.29	3	471-498(2.29) 665-690(1.50) 843-868(0.27)
gnl UG Hs#S3814684	2.46	3	114-141(1.43) 618-643(2.46) 676-704(1.40)
gnl UG Hs#S4001822	0.3	2	738-764(0.24) 1959-1984(0.30)
gnl UG Hs#S1730924	3.07	2	32-57(3.07) 189-214(0.65)
gnl UG Hs#S4435606	0.52	1	195-219(0.52)
gnl UG Hs#S1730944	0.4	1	205-231(0.40)
gnl UG Hs#S1731993	4.23	12	110-138(3.15) 467-492(1.59) 501-527(0.08) 743-769(1.82) 1527-1553(0.67) 1804-1827(2.01) 2118-2144(4.23) 3502-3530(0.30) 4340-4366(3.08) 4542-4566(0.08) 4953-4977(1.20) 5206-5234(0.30)
gnl UG Hs#S3603195	1.17	1	308-333(1.17)
gnl UG Hs#S3219376	1.15	1	654-679(1.15)
gnl UG Hs#S3602311	1.82	1	64-90(1.82)
gnl UG Hs#S3880833	1.49	2	282-305(1.49) 335-360(0.72)
gnl UG Hs#S1729859	1.91	7	520-545(0.23) 893-918(0.72) 1668-1693(1.11) 1736-1762(1.91) 2270-2298(0.23) 2755-2780(0.40) 3522-3547(1.30)
gnl UG Hs#S1727869	0.23	1	114-140(0.23)
gnl UG Hs#S4807877	1.24	5	16-41(0.20) 684-709(0.72) 953-978(0.72) 1018-1046(0.88) 1628-1653(1.24)
gnl UG Hs#S3619312	2.29	5	14-40(1.92) 638-665(2.29) 976-1002(1.20) 1816-1841(1.43) 2252-2277(0.07)
gnl UG Hs#S3218885	1.27	1	1524-1550(1.27)
gnl UG Hs#S3973013	1.33	4	300-326(0.36) 342-368(0.82) 574-597(0.36) 1127-1152(1.33)
gnl UG Hs#S1729408	1.13	1	579-604(1.13)
gnl UG Hs#S1727634	2.79	2	520-548(1.62) 1637-1662(2.79)
gnl UG Hs#S1726642	2.3	4	65-90(2.30) 1027-1052(0.72) 1316-1344(1.27) 2589-2615(0.23)
gnl UG Hs#S1730021	1.33	1	1541-1566(1.33)
gnl UG Hs#S3438518	0.2	1	1633-1658(0.20)
gnl UG Hs#S3219417	3.49	10	163-191(0.39) 309-335(1.01) 503-528(0.11) 1254-1279(0.26) 1398-1423(1.89) 1654-1679(3.49) 2073-2098(0.33) 2551-2577(1.40) 2943-2968(0.14) 3183-3207(2.97)
gnl UG Hs#S3803736	5.56	3	30-57(1.82) 178-204(1.58) 222-248(5.56)
gnl UG Hs#S4807709	3.76	1	107-132(3.76)
gnl UG Hs#S2294528	5.04	5	441-466(5.04) 1268-1294(0.11) 1418-1447(0.46) 1982-2007(0.55) 2554-2580(1.14)
gnl UG Hs#S1728888	0.08	1	152-180(0.08)
gnl UG Hs#S2294251	0.08	1	91-116(0.08)
gnl UG Hs#S2294211	6.18	1	1899-1925(6.18)
gnl UG Hs#S2293492	0.49	2	684-710(0.49) 886-911(0.26)
gnl UG Hs#S4615220	3.08	1	2168-2193(3.08)
gnl UG Hs#S3619277	1.72	1	1202-1225(1.72)
gnl UG Hs#S5930960	0.26	1	915-940(0.26)
gnl UG Hs#S4807842	2.05	3	350-378(2.05) 488-516(0.72) 743-768(1.58)
gnl UG Hs#S1729852	4.7	1	128-153(4.70)
gnl UG Hs#S1731004	0.36	1	551-576(0.36)
gnl UG Hs#S3355626	0.26	1	127-152(0.26)
gnl UG Hs#S1728949	0.57	1	211-237(0.57)
gnl UG Hs#S3219658	3.9	3	817-842(3.90) 1448-1474(0.11) 1575-1600(0.17)
gnl UG Hs#S4285361	4.8	10	45-71(0.40) 307-333(1.77) 1850-1878(0.23) 2830-2854(4.80) 3222-3249(0.18) 3261-3287(0.08) 3548-3573(1.46) 4461-4486(1.20) 4773-4798(1.59) 5268-5294(0.10)
gnl UG Hs#S2140422	1.76	1	324-350(1.76)
gnl UG Hs#S1731657	3.02	1	188-214(3.02)

gnl UG Hs#S3601490	3.3	1 232-257(3.30)
gnl UG Hs#S1729115	2.9	1 339-364(2.90)
gnl UG Hs#S1727921	3.65	1 106-133(3.65)
gnl UG Hs#S1730268	3.66	1 25-51(3.66)
gnl UG Hs#S4817328	1.08	3 528-553(0.17) 710-735(0.36) 1419-1444(1.08)
gnl UG Hs#S1730364	1.4	1 1023-1048(1.40)
gnl UG Hs#S3219775	0.08	1 422-447(0.08)
gnl UG Hs#S1732353	1.58	3 209-237(0.53) 785-811(1.22) 1174-1199(1.58)
gnl UG Hs#S5930959	3.59	1 970-996(3.59)
gnl UG Hs#S2294243	3.23	3 483-509(3.23) 1190-1218(1.00) 1501-1526(1.78)
gnl UG Hs#S5931239	3.4	3 773-799(1.62) 1094-1119(3.40) 1338-1366(0.43)
gnl UG Hs#S15642843	0.3	3 244-271(0.17) 565-591(0.01) 645-671(0.30)
gnl UG Hs#S3992197	4.79	1 326-351(4.79)
gnl UG Hs#S11046666	4.3	2 246-272(4.30) 296-322(2.18)
gnl UG Hs#S4284312	0.78	1 2014-2039(0.78)
gnl UG Hs#S2293643	3.89	4 706-731(3.89) 773-799(2.76) 1369-1394(1.36) 1633-1657(1.14)
gnl UG Hs#S4822359	1.82	1 1935-1960(1.82)
gnl UG Hs#S4817010	3.14	6 449-475(0.94) 1589-1614(1.62) 2241-2267(0.23) 2527-2552(0.17) 2895-2923(1.01) 4024-4050(3.14)
gnl UG Hs#S3619351	1.62	1 54-79(1.62)
gnl UG Hs#S15115576	3.13	5 728-757(1.84) 851-876(1.52) 959-984(3.13) 1278-1303(1.58) 1850-1877(1.24)
gnl UG Hs#S1728827	2.25	6 2043-2071(2.25) 2130-2155(0.85) 2186-2212(0.13) 2319-2344(0.40) 2443-2468(0.46) 2567-2595(0.49)
gnl UG Hs#S1727290	0.2	1 364-388(0.20)
gnl UG Hs#S5978801	1.94	2 198-224(1.94) 285-310(0.84)
gnl UG Hs#S1727007	1.68	1 552-580(1.68)
gnl UG Hs#S15730308	1.17	2 1207-1232(1.17) 1307-1332(0.40)
gnl UG Hs#S4810978	0.52	1 2153-2177(0.52)
gnl UG Hs#S2138690	3.03	2 222-248(0.36) 630-658(3.03)
gnl UG Hs#S1727650	1.66	2 736-763(1.66) 804-832(0.04)
gnl UG Hs#S2293456	1.39	3 281-306(0.39) 767-792(1.39) 814-844(0.91)
gnl UG Hs#S5978560	1.37	1 3-30(1.37)
gnl UG Hs#S2139279	2.12	2 108-133(2.12) 332-357(0.65)
gnl UG Hs#S1729374	0.97	2 1937-1962(0.30) 2352-2377(0.97)
gnl UG Hs#S1730258	1.4	1 39-67(1.40)
gnl UG Hs#S4821568	3.48	1 335-359(3.48)
gnl UG Hs#S4827921	0.01	1 649-675(0.01)
gnl UG Hs#S1729479	1.13	3 29-54(0.76) 177-203(0.01) 204-229(1.13)
gnl UG Hs#S4807643	0.58	1 12-38(0.58)
gnl UG Hs#S11046700	0.23	1 79-104(0.23)
gnl UG Hs#S1732003	1.07	1 1890-1918(1.07)
gnl UG Hs#S15633166	0.33	1 728-753(0.33)
gnl UG Hs#S2649484	0.5	1 554-580(0.50)
gnl UG Hs#S4285064	2.08	4 271-296(1.24) 424-449(1.11) 653-678(0.23) 716-741(2.08)
gnl UG Hs#S2293591	0.5	2 439-464(0.40) 864-889(0.50)
gnl UG Hs#S4807653	0.23	1 392-417(0.23)
gnl UG Hs#S1569523	1.72	1 1558-1584(1.72)
gnl UG Hs#S2140635	0.76	2 688-714(0.03) 1150-1175(0.76)
gnl UG Hs#S1730382	4.45	6 142-168(0.36) 225-250(0.65) 547-573(2.30) 745-770(4.45) 1432-1457(4.43) 1813-1838(0.50)
gnl UG Hs#S3219997	0.8	2 1598-1623(0.08) 1749-1774(0.80)
gnl UG Hs#S1728596	2.3	4 95-120(0.91) 201-226(0.82) 539-564(1.30) 1645-1670(2.30)
gnl UG Hs#S1729105	0.29	1 1436-1463(0.29)
gnl UG Hs#S1824270	0.59	2 420-445(0.48) 1444-1471(0.59)
gnl UG Hs#S4807832	1.88	1 174-202(1.88)
gnl UG Hs#S15631447	0.21	1 447-473(0.21)
gnl UG Hs#S1730823	2.15	1 140-166(2.15)

gnl UG Hs#S1731624	0.66	1	195-220(0.66)
gnl UG Hs#S14273293	1.4	1	140-165(1.40)
gnl UG Hs#S2293940	0.66	1	726-753(0.66)
gnl UG Hs#S2139850	3.14	1	279-305(3.14)
gnl UG Hs#S1728443	0.58	2	81-106(0.58) 224-250(0.11)
gnl UG Hs#S2139674	7.92	6	395-421(1.27) 808-834(0.23) 890-916(0.50) 1688-1717(1.63) 2424-2449(7.92) 2919-2945(0.04)
gnl UG Hs#S5978480	0.3	1	269-297(0.30)
gnl UG Hs#S3439655	3.53	2	186-211(3.53) 476-500(0.56)
gnl UG Hs#S5517671	1.49	1	81-109(1.49)
gnl UG Hs#S4435336	5.15	2	1143-1169(0.52) 1411-1436(5.15)
gnl UG Hs#S4554433	1.19	2	1163-1188(0.13) 1287-1312(1.19)
gnl UG Hs#S3988451	3.04	1	116-141(3.04)
gnl UG Hs#S3619727	0.36	1	258-282(0.36)
gnl UG Hs#S3437796	0.49	1	35-61(0.49)
gnl UG Hs#S3355473	5.27	1	375-401(5.27)
gnl UG Hs#S1824533	2.25	3	29-53(2.25) 1316-1339(0.36) 1594-1619(2.13)
gnl UG Hs#S15631432	4.16	2	703-729(4.16) 933-959(0.01)
gnl UG Hs#S4283950	3.46	3	7-32(3.30) 142-169(3.46) 181-208(2.15)
gnl UG Hs#S3825997	3.26	1	287-312(3.26)
gnl UG Hs#S1727086	1.99	4	1056-1081(0.58) 1145-1173(0.04) 1230-1255(1.99) 2354-2382(0.71)
gnl UG Hs#S1728688	3.88	3	374-401(3.30) 622-646(0.52) 1166-1193(3.88)
gnl UG Hs#S1729968	0.33	2	10-35(0.04) 615-641(0.33)
gnl UG Hs#S4614464	2.23	2	461-486(0.53) 778-803(2.23)
gnl UG Hs#S2293372	1.17	1	236-262(1.17)
gnl UG Hs#S2139589	1.43	2	173-199(1.43) 215-240(0.20)
gnl UG Hs#S3355610	1.62	2	835-864(1.62) 977-1005(0.60)
gnl UG Hs#S3219709	1.88	2	74-99(1.88) 539-564(0.53)
gnl UG Hs#S4807612	0.72	1	1046-1071(0.72)
gnl UG Hs#S2139532	5.14	8	281-308(1.74) 316-341(5.14) 737-762(0.30) 1513-1539(0.18) 1711-1736(0.53) 1837-1863(2.89) 1965-1988(0.86) 2215-2240(3.04)
gnl UG Hs#S4435722	1.82	2	34-59(1.82) 511-536(0.34)
gnl UG Hs#S5978467	2.79	1	138-163(2.79)
gnl UG Hs#S4436246	1.76	2	166-193(0.10) 488-514(1.76)
gnl UG Hs#S1732428	0.48	1	8-33(0.48)
gnl UG Hs#S4631014	0.29	1	879-904(0.29)
gnl UG Hs#S1727297	1.04	2	225-251(0.34) 283-309(1.04)
gnl UG Hs#S1726506	1.04	1	117-141(1.04)
gnl UG Hs#S2138916	2.2	1	84-109(2.20)
gnl UG Hs#S4044957	2.66	4	33-57(2.66) 98-124(1.33) 451-476(0.85) 633-658(1.82)
gnl UG Hs#S3438996	1.89	2	1476-1501(0.17) 1772-1797(1.89)
gnl UG Hs#S5978598	0.57	1	872-897(0.57)
gnl UG Hs#S3438991	0.07	1	988-1013(0.07)
gnl UG Hs#S3219231	1.97	3	1616-1641(0.80) 1994-2019(0.09) 2748-2773(1.97)
gnl UG Hs#S3988372	1.24	2	1186-1211(0.91) 1793-1818(1.24)
gnl UG Hs#S7111036	2.79	3	1410-1435(0.46) 1739-1764(1.59) 4079-4104(2.79)
gnl UG Hs#S2139029	0.01	1	486-511(0.01)
gnl UG Hs#S3989293	1.56	1	163-190(1.56)
gnl UG Hs#S3355560	1.17	4	55-83(0.98) 134-159(0.82) 675-700(1.17) 893-918(0.23)
gnl UG Hs#S11062784	0.94	2	1161-1187(0.94) 2373-2398(0.76)
gnl UG Hs#S4002089	3.97	2	26-51(2.20) 166-191(3.97)
gnl UG Hs#S5978499	2.34	2	754-780(0.55) 3060-3086(2.34)
gnl UG Hs#S10832089	0.13	1	219-245(0.13)
gnl UG Hs#S3817891	1.07	1	429-457(1.07)
gnl UG Hs#S1727021	1.23	4	71-96(0.14) 166-191(0.58) 219-245(1.23) 302-330(0.37)
gnl UG Hs#S1731164	1.01	1	163-189(1.01)

gnl UG Hs#S1730103	1.13	2	1175-1200(1.13) 1207-1235(0.52)
gnl UG Hs#S1726227	2.67	3	278-306(1.14) 411-437(0.62) 787-812(2.67)
gnl UG Hs#S6158759	4.26	3	62-85(0.47) 1061-1086(4.26) 1306-1332(0.17)
gnl UG Hs#S2139625	2.26	3	14-39(2.02) 334-359(0.17) 1490-1517(2.26)
gnl UG Hs#S4545974	1.89	2	558-583(1.89) 744-769(1.49)
gnl UG Hs#S4631258	0.76	2	713-738(0.39) 1288-1314(0.76)
gnl UG Hs#S2139460	1.98	3	1717-1742(0.32) 1959-1984(1.98) 2183-2208(0.58)
gnl UG Hs#S1728939	2.36	4	211-237(0.53) 424-449(2.36) 755-783(0.27) 1103-1128(2.31)
gnl UG Hs#S1728189	2.72	2	658-683(2.72) 844-872(1.16)
gnl UG Hs#S2139169	2.17	1	446-472(2.17)
gnl UG Hs#S2140627	0.5	2	131-157(0.50) 182-208(0.49)
gnl UG Hs#S14802374	1.74	3	743-768(0.07) 775-802(1.74) 823-849(0.50)
gnl UG Hs#S3437937	1.72	2	207-232(0.28) 1100-1125(1.72)
gnl UG Hs#S3601758	2.48	2	553-581(0.30) 1432-1457(2.48)
gnl UG Hs#S1824568	1.42	2	667-693(1.37) 910-938(1.42)
gnl UG Hs#S2140381	1.65	5	462-487(0.23) 588-613(1.65) 677-702(0.37) 2097-2123(0.14) 2683-2708(0.40)
gnl UG Hs#S2139633	2.49	2	382-407(2.49) 476-504(0.44)
gnl UG Hs#S1728147	0.01	1	741-766(0.01)
gnl UG Hs#S3355534	1.14	1	166-194(1.14)
gnl UG Hs#S3219173	0.3	1	387-413(0.30)
gnl UG Hs#S3439151	0.17	1	647-673(0.17)
gnl UG Hs#S4435549	0.65	1	127-153(0.65)
gnl UG Hs#S1728757	3.98	2	264-289(0.13) 348-373(3.98)
gnl UG Hs#S1824311	2.46	1	94-119(2.46)
gnl UG Hs#S1730781	0.08	1	103-131(0.08)
gnl UG Hs#S11046552	0.88	2	49-77(0.88) 437-463(0.02)
gnl UG Hs#S1730674	5.3	3	520-546(0.50) 672-698(5.30) 1232-1257(1.13)
gnl UG Hs#S11046651	4.08	1	205-231(4.08)
gnl UG Hs#S1729463	6.94	5	22-47(2.01) 103-128(6.94) 276-302(1.92) 744-769(0.17) 1505-1530(0.04)
gnl UG Hs#S1726691	1.13	1	684-709(1.13)
gnl UG Hs#S1732158	9.97	1	371-396(9.97)
gnl UG Hs#S3355640	0.76	1	50-75(0.76)
gnl UG Hs#S1727468	3.62	2	216-241(3.62) 258-282(1.82)
gnl UG Hs#S3438955	0.1	1	1053-1079(0.10)
gnl UG Hs#S4631404	0.82	1	169-194(0.82)
gnl UG Hs#S10832364	1.79	1	13-38(1.79)
gnl UG Hs#S3219967	3.79	1	575-600(3.79)
gnl UG Hs#S2294388	2.21	1	875-900(2.21)
gnl UG Hs#S1731785	5.72	2	147-172(5.72) 532-558(0.27)
gnl UG Hs#S3992174	2.69	1	2755-2780(2.69)
gnl UG Hs#S3601645	0.17	1	57-82(0.17)
gnl UG Hs#S3438561	0.84	1	621-646(0.84)
gnl UG Hs#S5930885	6.47	1	1053-1078(6.47)
gnl UG Hs#S4813977	2.36	3	1800-1825(1.72) 2054-2079(2.36) 2135-2161(0.75)
gnl UG Hs#S1729615	1.79	1	1967-1992(1.79)
gnl UG Hs#S14812661	0.23	1	745-771(0.23)
gnl UG Hs#S4807679	3.5	8	499-524(3.16) 662-687(0.58) 734-761(0.33) 876-904(3.50) 1134-1159(2.70) 1247-1275(1.25) 2006-2034(2.40) 2273-2298(0.72)
gnl UG Hs#S3782091	3.86	1	195-221(3.86)
gnl UG Hs#S3438800	4.49	2	97-122(4.49) 924-952(0.13)
gnl UG Hs#S2293585	0.14	1	755-780(0.14)
gnl UG Hs#S14802369	4.53	1	44-70(4.53)
gnl UG Hs#S5860354	0.11	1	1324-1349(0.11)
gnl UG Hs#S2293307	1	2	278-303(1.00) 313-339(0.66)
gnl UG Hs#S1732288	1.95	6	316-341(1.95) 622-647(1.87) 708-736(1.15) 1517-1542(0.40) 2983-3008(0.07) 3269-3295(0.82)

gnl UG Hs#S2293575	5.11	1	408-433(5.11)
gnl UG Hs#S1730863	3.2	3	247-272(2.26) 456-479(0.52) 1034-1059(3.20)
gnl UG Hs#S1731750	1.13	2	1889-1916(0.97) 2285-2310(1.13)
gnl UG Hs#S1728764	0.69	1	48-73(0.69)
gnl UG Hs#S15636390	3.04	2	1230-1256(0.23) 2352-2377(3.04)
gnl UG Hs#S2139013	0.66	1	830-858(0.66)
gnl UG Hs#S1726948	0.94	6	1-25(0.04) 269-295(0.94) 450-476(0.69) 501-526(0.39) 926-954(0.42) 1013-1038(0.72)
gnl UG Hs#S4810855	3.08	1	1495-1521(3.08)
gnl UG Hs#S1726361	0.95	1	147-170(0.95)
gnl UG Hs#S5860303	2.11	6	316-341(2.11) 1151-1176(1.94) 1201-1225(1.11) 1258-1283(1.40) 1347-1372(1.32) 1423-1451(1.07)
gnl UG Hs#S1971547	1.65	2	437-463(0.23) 1730-1756(1.65)
gnl UG Hs#S7112387	0.84	1	1886-1911(0.84)
gnl UG Hs#S15640509	0.98	3	769-795(0.17) 1067-1092(0.98) 1130-1155(0.75)
gnl UG Hs#S4615502	1.36	2	528-553(1.36) 569-595(0.56)
gnl UG Hs#S3619258	1.56	2	227-252(1.56) 516-541(1.08)
gnl UG Hs#S1728929	1.88	4	107-135(1.88) 194-219(0.72) 463-487(0.04) 789-814(0.20)
gnl UG Hs#S4554591	0.33	1	860-885(0.33)
gnl UG Hs#S4435803	1.62	3	1-26(0.08) 490-515(0.16) 636-659(1.62)
gnl UG Hs#S5978810	1.07	4	772-797(1.07) 1434-1459(0.82) 1819-1847(0.08) 1858-1883(0.88)
gnl UG Hs#S2138763	0.53	1	122-148(0.53)
gnl UG Hs#S10831865	5.58	1	1048-1073(5.58)
gnl UG Hs#S2293339	3.34	4	414-439(2.76) 476-502(3.34) 522-550(1.23) 557-582(1.53)
gnl UG Hs#S3438657	2.94	2	63-88(2.94) 622-647(0.07)
gnl UG Hs#S4815428	6.09	2	3212-3238(6.09) 3861-3887(0.02)
gnl UG Hs#S4545836	0.4	1	524-549(0.40)
gnl UG Hs#S4807585	0.01	1	49-77(0.01)
gnl UG Hs#S3542667	0.98	2	897-925(0.75) 939-964(0.98)
gnl UG Hs#S1824573	3.88	4	1487-1512(0.72) 2023-2048(1.65) 2145-2170(1.04) 2353-2380(3.88)
gnl UG Hs#S4824911	2.62	1	1026-1051(2.62)
gnl UG Hs#S2294673	1.23	2	22-47(0.23) 390-418(1.23)
gnl UG Hs#S1729958	0.56	1	481-506(0.56)
gnl UG Hs#S4819647	2.94	7	838-864(1.34) 1368-1396(1.16) 1485-1512(1.20) 1513-1539(2.94) 2187-2212(0.43) 3687-3712(1.04) 3799-3828(0.05)
gnl UG Hs#S1729236	1.98	2	245-272(1.98) 2025-2052(0.00)
gnl UG Hs#S5517468	0.91	1	767-793(0.91)
gnl UG Hs#S3333855	0.53	1	2555-2580(0.53)
gnl UG Hs#S3438432	0.19	1	591-616(0.19)
gnl UG Hs#S15636761	3.03	3	638-665(1.95) 875-900(0.53) 1098-1123(3.03)
gnl UG Hs#S4822342	3.52	1	4326-4351(3.52)
gnl UG Hs#S2140292	0.04	1	167-192(0.04)
gnl UG Hs#S4283625	1.65	3	291-317(0.28) 594-620(1.65) 2885-2910(0.04)
gnl UG Hs#S1726439	1.91	1	195-220(1.91)
gnl UG Hs#S3973142	0.49	1	255-282(0.49)
gnl UG Hs#S3940069	2.84	4	92-117(0.20) 190-217(0.92) 520-548(0.17) 1570-1596(2.84)
gnl UG Hs#S1726969	0.56	1	331-358(0.56)
gnl UG Hs#S1731253	2.31	1	59-84(2.31)
gnl UG Hs#S3603024	1.39	3	1300-1327(1.39) 1332-1357(0.98) 1415-1443(0.47)
gnl UG Hs#S4620649	1.58	1	1216-1241(1.58)
gnl UG Hs#S1727404	1.04	1	14-39(1.04)
gnl UG Hs#S6664763	1.88	6	162-190(1.03) 763-789(0.30) 1214-1239(0.76) 1880-1906(0.20) 2105-2131(1.88) 2230-2254(0.07)
gnl UG Hs#S1730615	0.89	1	1777-1800(0.89)
gnl UG Hs#S2293621	0.46	2	44-69(0.46) 895-920(0.04)
gnl UG Hs#S3543052	0.33	1	323-348(0.33)
gnl UG Hs#S1729992	0.14	1	347-372(0.14)
gnl UG Hs#S1729846	1.4	1	797-823(1.40)

gnl UG Hs#S7110347	4.37	1	1545-1571(4.37)
gnl UG Hs#S1728151	2.82	8	83-108(1.97) 498-523(2.52) 584-612(0.49) 861-885(2.40) 965-990(2.04) 1005-1030(1.82) 1100-1125(2.82) 1235-1260(0.65)
gnl UG Hs#S3603808	3.56	1	239-266(3.56)
gnl UG Hs#S1726762	3.67	3	292-320(0.94) 681-709(3.67) 866-894(0.81)
gnl UG Hs#S5860337	4.69	3	919-947(0.68) 1098-1123(4.69) 1483-1509(0.20)
gnl UG Hs#S1731639	2.62	5	273-301(2.30) 1189-1215(0.04) 1282-1309(2.62) 1804-1829(0.20) 1839-1864(0.23)
gnl UG Hs#S2140714	1.82	1	166-191(1.82)
gnl UG Hs#S2293186	1.2	1	170-195(1.20)
gnl UG Hs#S4284788	1.76	1	168-194(1.76)
gnl UG Hs#S4807796	2.3	1	416-441(2.30)
gnl UG Hs#S2138721	1.04	1	70-95(1.04)
gnl UG Hs#S4807886	1.08	1	1236-1262(1.08)
gnl UG Hs#S4623573	3.59	2	435-461(3.59) 828-854(0.54)
gnl UG Hs#S3219445	3.13	1	423-448(3.13)
gnl UG Hs#S1730943	4.99	9	497-522(0.98) 921-947(4.08) 1160-1186(4.99) 1497-1522(0.40) 2512-2537(0.13) 2569-2596(1.39) 2921-2946(0.57) 3092-3119(0.98) 3204-3229(3.42)
gnl UG Hs#S1729351	2.72	6	35-60(2.05) 294-322(0.88) 519-546(0.29) 985-1011(1.98) 2312-2338(2.72) 2390-2418(0.66)
gnl UG Hs#S7113303	1.63	3	1141-1166(0.76) 1243-1267(1.20) 1556-1581(1.63)
gnl UG Hs#S1727811	0.3	1	1236-1259(0.30)
gnl UG Hs#S1727990	1.56	3	418-445(1.56) 531-556(1.46) 568-596(0.01)
gnl UG Hs#S1729513	0.88	2	17-43(0.88) 84-110(0.01)
gnl UG Hs#S7110199	4.93	3	40-65(1.14) 673-699(4.93) 729-754(0.62)
gnl UG Hs#S3438859	1.98	3	523-546(0.04) 659-684(1.98) 804-829(0.66)
gnl UG Hs#S2293680	0.81	1	51-77(0.81)
gnl UG Hs#S1728472	0.18	1	212-237(0.18)
gnl UG Hs#S7112122	0.53	2	79-104(0.53) 276-302(0.01)
gnl UG Hs#S3881163	3.14	3	563-588(3.14) 2431-2459(2.55) 3039-3063(1.26)
gnl UG Hs#S3601676	3.5	4	366-391(0.91) 1161-1186(3.50) 1708-1736(1.94) 1927-1955(2.25)
gnl UG Hs#S7089699	4.45	4	16-41(3.36) 222-250(0.81) 274-299(2.72) 1137-1163(4.45)
gnl UG Hs#S4828080	1.33	2	1194-1219(1.33) 1492-1517(0.24)
gnl UG Hs#S2139488	1.33	2	27-53(1.33) 132-157(1.02)
gnl UG Hs#S3219362	2.3	1	44-69(2.30)
gnl UG Hs#S1730979	2.16	2	248-275(2.16) 1008-1033(1.25)
gnl UG Hs#S1731107	2.04	1	161-186(2.04)
gnl UG Hs#S1726687	1.5	3	256-282(1.50) 446-471(0.62) 1062-1087(0.68)
gnl UG Hs#S2293780	1.46	1	357-382(1.46)
gnl UG Hs#S3438144	3.6	4	383-409(0.76) 418-443(0.98) 515-543(0.18) 668-694(3.60)
gnl UG Hs#S1726918	0.62	1	96-121(0.62)
gnl UG Hs#S15631814	2.07	1	361-386(2.07)
gnl UG Hs#S2139647	4.3	3	1871-1896(1.46) 2232-2257(0.65) 2333-2358(4.30)
gnl UG Hs#S4810354	4.94	10	5-28(1.54) 541-566(0.66) 2268-2294(2.68) 2320-2348(1.64) 2605-2630(0.13) 3209-3234(0.41) 3259-3284(2.82) 4059-4084(1.17) 4364-4389(4.94) 5266-5289(0.62)
gnl UG Hs#S3219412	3.89	1	794-819(3.89)
gnl UG Hs#S15632018	1.08	3	986-1011(0.43) 1149-1175(1.08) 1463-1488(0.19)
gnl UG Hs#S1728251	1.06	4	61-86(1.06) 187-212(0.72) 354-379(0.20) 600-628(0.27)
gnl UG Hs#S1727674	2.23	3	526-552(0.11) 794-819(0.08) 950-976(2.23)
gnl UG Hs#S3219517	1.08	1	214-239(1.08)
gnl UG Hs#S3355480	1.4	1	131-156(1.40)
gnl UG Hs#S2140205	1.75	1	983-1006(1.75)
gnl UG Hs#S2139250	4.2	13	229-254(0.24) 647-671(0.58) 1287-1312(0.62) 2859-2884(3.56) 2970-2995(0.89) 3038-3064(1.86) 3088-3113(4.20) 3169-3194(0.04) 4197-4224(0.59) 4421-4447(0.91) 4602-4627(1.26) 5086-5111(2)
gnl UG Hs#S1731537	0.82	1	22-47(0.82)
gnl UG Hs#S1726245	4.9	1	73-98(4.90)
gnl UG Hs#S1730489	2.53	1	558-583(2.53)
gnl UG Hs#S3219166	1.81	2	134-162(1.81) 315-342(0.10)
gnl UG Hs#S1824430	0.01	1	606-632(0.01)
gnl UG Hs#S3219484	0.72	2	228-255(0.14) 266-291(0.72)

gnl UG Hs#S4814805	0.92	2 678-703(0.58) 816-843(0.92)
gnl UG Hs#S3438900	0.62	1 464-490(0.62)
gnl UG Hs#S2138769	3.5	9 92-114(0.95) 397-422(0.24) 472-498(0.59) 676-702(0.10) 871-896(0.13) 916-942(3.50) 971-997(2.17) 1101-1126(0.16) 1167-1192(2.30)
gnl UG Hs#S1824512	0.5	1 406-432(0.50)
gnl UG Hs#S4824293	1.75	11 82-107(0.36) 110-135(1.46) 822-847(0.18) 1114-1137(0.02) 1163-1191(0.66) 1546-1571(0.65) 2125-2151(1.42) 2641-2667(1.75) 3396-3421(0.53) 3788-3814(1.40) 4249-4275(1.36)
gnl UG Hs#S2140159	2.91	1 210-235(2.91)
gnl UG Hs#S2139905	2.27	1 771-799(2.27)
gnl UG Hs#S10832213	0.04	1 612-637(0.04)
gnl UG Hs#S4553527	3.4	2 164-190(3.40) 270-295(1.26)
gnl UG Hs#S3880903	1.69	4 705-730(0.92) 811-836(0.85) 1384-1410(1.26) 1613-1639(1.69)
gnl UG Hs#S7112103	4.14	6 49-75(0.34) 259-285(0.27) 1969-1995(4.14) 2114-2140(1.18) 2534-2559(1.91) 2682-2708(0.13)
gnl UG Hs#S2138660	2.37	2 194-220(1.72) 263-290(2.37)
gnl UG Hs#S1824522	1.55	3 277-305(0.49) 313-338(1.55) 476-503(0.65)
gnl UG Hs#S3547269	0.98	1 191-217(0.98)
gnl UG Hs#S15638184	1.81	1 184-208(1.81)
gnl UG Hs#S1731389	2.22	7 5-30(0.72) 66-89(0.21) 353-378(2.22) 648-673(0.50) 676-700(0.90) 712-738(1.76) 1168-1193(1.08)
gnl UG Hs#S1731247	0.69	1 222-248(0.69)
gnl UG Hs#S1969097	3.48	5 100-125(1.17) 940-965(1.04) 1300-1325(3.48) 2148-2176(0.98) 3144-3169(2.53)
gnl UG Hs#S6163095	0.89	2 303-331(0.14) 369-394(0.89)
gnl UG Hs#S2139618	0.19	1 984-1008(0.19)
gnl UG Hs#S4631310	0.14	1 733-758(0.14)
gnl UG Hs#S4553546	3.91	4 553-578(1.65) 926-951(0.18) 1543-1568(3.91) 1580-1605(0.66)
gnl UG Hs#S15644796	3.3	2 766-791(2.06) 1475-1500(3.30)
gnl UG Hs#S2293466	3.37	3 191-217(1.17) 339-367(2.81) 1094-1119(3.37)
gnl UG Hs#S3542704	4.72	4 1588-1614(1.23) 2563-2589(2.11) 2766-2789(0.88) 3202-3227(4.72)
gnl UG Hs#S2139483	1.52	3 1294-1319(0.08) 2255-2280(1.52) 3950-3977(0.77)
gnl UG Hs#S1731179	0.98	1 146-172(0.98)
gnl UG Hs#S1730656	2.33	1 335-363(2.33)
gnl UG Hs#S15846833	1.44	2 424-447(0.82) 1830-1856(1.44)
gnl UG Hs#S3987129	0.49	1 1258-1286(0.49)
gnl UG Hs#S2139733	0.16	1 109-137(0.16)
gnl UG Hs#S3219299	0.82	1 833-859(0.82)
gnl UG Hs#S3603863	0.98	2 506-534(0.98) 1173-1198(0.75)
gnl UG Hs#S1726260	3.57	11 324-349(3.57) 794-820(0.91) 862-888(1.08) 1066-1093(0.33) 1154-1182(2.08) 1344-1372(0.96) 1595-1620(0.01) 1788-1813(2.30) 1970-1997(2.75) 2129-2156(1.40) 2344-2370(1.72)
gnl UG Hs#S1726276	1.26	3 814-840(1.26) 1330-1353(0.04) 1960-1988(0.38)
gnl UG Hs#S1727403	2.17	1 189-214(2.17)
gnl UG Hs#S3219158	0.42	2 105-127(0.42) 158-186(0.11)
gnl UG Hs#S3219604	0.63	2 656-682(0.49) 739-764(0.63)
gnl UG Hs#S15638196	0.94	2 819-844(0.94) 2820-2845(0.79)
gnl UG Hs#S4631112	2.18	8 876-901(0.52) 914-941(0.16) 970-994(2.18) 1322-1347(0.04) 1475-1500(0.46) 2000-2026(0.34) 2033-2058(0.43) 2345-2373(1.71)
gnl UG Hs#S5931377	4.86	4 537-563(1.01) 887-913(4.86) 1015-1041(0.08) 1282-1308(0.49)
gnl UG Hs#S1727478	3.62	3 980-1005(0.50) 1170-1195(3.62) 1548-1573(0.40)
gnl UG Hs#S3603162	0.33	1 265-290(0.33)
gnl UG Hs#S3987156	2.43	3 1385-1411(0.56) 1799-1825(1.55) 2487-2513(2.43)
gnl UG Hs#S2138864	2.65	5 8-33(2.65) 152-177(2.15) 468-495(0.45) 553-579(0.04) 589-614(0.30)
gnl UG Hs#S1730012	0.98	3 1136-1162(0.89) 1329-1354(0.98) 2559-2584(0.46)
gnl UG Hs#S4823130	1.94	2 323-348(0.14) 1099-1124(1.94)
gnl UG Hs#S4810711	1.17	1 263-288(1.17)
gnl UG Hs#S15631517	0.9	1 80-105(0.90)
gnl UG Hs#S2140091	4.07	4 427-453(0.40) 493-518(1.72) 626-650(4.07) 1318-1343(0.40)
gnl UG Hs#S1729845	0.26	2 342-367(0.03) 866-891(0.26)
gnl UG Hs#S1730170	2.44	1 184-209(2.44)
gnl UG Hs#S2293666	2.3	1 276-301(2.30)
gnl UG Hs#S7111674	0.82	1 725-751(0.82)

gnl UG Hs#S4808306	3.3	1 729-755(3.30)
gnl UG Hs#S4823129	0.53	1 29-54(0.53)
gnl UG Hs#S2140069	2.43	2 422-447(0.33) 576-601(2.43)
gnl UG Hs#S1731856	1.58	3 147-173(0.72) 1387-1412(1.58) 1509-1534(1.01)
gnl UG Hs#S2655970	1.94	3 459-485(0.82) 547-572(1.94) 739-765(0.91)
gnl UG Hs#S2139677	1.72	1 19-44(1.72)
gnl UG Hs#S2139492	2.31	8 327-355(0.07) 362-388(2.31) 1794-1819(1.53) 2315-2340(1.53) 3031-3059(0.66) 3699-3724(1.40) 3736-3761(0.43) 4718-4743(0.81)
gnl UG Hs#S3438599	2.05	3 57-82(0.17) 218-244(0.12) 297-322(2.05)
gnl UG Hs#S4824968	2.63	3 111-136(0.72) 406-431(0.30) 710-735(2.63)
gnl UG Hs#S4614136	0.5	1 757-782(0.50)
gnl UG Hs#S7110983	3.26	2 1405-1430(1.55) 1760-1785(3.26)
gnl UG Hs#S1729053	2.3	3 320-346(2.30) 446-471(1.78) 612-637(1.65)
gnl UG Hs#S4807596	0.64	1 896-924(0.64)
gnl UG Hs#S7112193	1.08	1 823-848(1.08)
gnl UG Hs#S11046803	3.62	4 214-240(0.20) 330-355(1.56) 454-480(2.50) 620-648(3.62)
gnl UG Hs#S2655073	4.16	2 2949-2977(4.16) 3234-3259(1.46)
gnl UG Hs#S2140254	0.1	2 423-446(0.07) 534-562(0.10)
gnl UG Hs#S4545982	1.33	1 332-358(1.33)
gnl UG Hs#S3602310	5.53	1 596-621(5.53)
gnl UG Hs#S4396103	2.72	2 252-277(0.88) 357-382(2.72)
gnl UG Hs#S553747	2.26	4 506-531(1.91) 1664-1689(0.33) 1888-1914(0.34) 2247-2272(2.26)
gnl UG Hs#S4817439	4.12	8 318-343(0.46) 2523-2549(0.08) 3363-3388(1.26) 3526-3552(0.69) 3655-3680(4.12) 3846-3871(0.68) 5136-5162(2.01) 5366-5391(2.50)
gnl UG Hs#S14812577	0.48	1 34-59(0.48)
gnl UG Hs#S4827482	1.1	1 62-85(1.10)
gnl UG Hs#S11154086	1.98	2 16-41(0.11) 245-270(1.98)
gnl UG Hs#S3601564	4.53	8 744-769(1.11) 1063-1089(0.84) 1109-1134(0.62) 1137-1163(0.84) 1354-1379(4.53) 1539-1567(0.56) 1929-1953(2.33) 1962-1990(0.78)
gnl UG Hs#S6683095	4.47	2 104-129(0.57) 229-254(4.47)
gnl UG Hs#S1263853	1.72	3 1457-1485(0.33) 1761-1786(0.94) 1815-1840(1.72)
gnl UG Hs#S1732333	0.76	3 206-231(0.76) 821-846(0.18) 947-972(0.65)
gnl UG Hs#S1731599	0.11	1 100-125(0.11)
gnl UG Hs#S1731051	0.84	1 232-258(0.84)
gnl UG Hs#S2293907	3.89	2 26-51(1.53) 55-81(3.89)
gnl UG Hs#S3219054	2.98	4 2180-2208(0.98) 2353-2378(1.79) 2701-2727(2.04) 3129-3154(2.98)
gnl UG Hs#S4631367	0.05	1 134-159(0.05)
gnl UG Hs#S2293483	0.81	1 743-768(0.81)
gnl UG Hs#S4823017	3.33	1 202-228(3.33)
gnl UG Hs#S2140015	1	2 358-382(0.30) 625-650(1.00)
gnl UG Hs#S5860340	5.46	2 1310-1338(0.40) 1839-1866(5.46)
gnl UG Hs#S2140522	0.94	1 120-146(0.94)
gnl UG Hs#S4546285	2.33	3 25-50(1.11) 70-95(0.04) 484-510(2.33)
gnl UG Hs#S15637523	2.45	2 579-602(0.89) 889-915(2.45)
gnl UG Hs#S1729032	0.07	1 316-343(0.07)
gnl UG Hs#S4392294	6.4	7 340-365(1.26) 530-558(0.07) 911-936(0.89) 1062-1087(1.91) 1584-1607(1.21) 1765-1793(0.23) 1895-1923(6.40)
gnl UG Hs#S4396110	0.69	1 560-586(0.69)
gnl UG Hs#S1728589	5.7	2 712-739(0.51) 1266-1291(5.70)
gnl UG Hs#S3619114	0.98	1 463-488(0.98)
gnl UG Hs#S1726867	1.27	2 174-200(1.27) 471-496(1.11)
gnl UG Hs#S1726565	2.87	2 328-353(1.09) 542-569(2.87)
gnl UG Hs#S6091959	0.07	1 32-57(0.07)
gnl UG Hs#S2140550	3.82	9 1463-1489(0.72) 1769-1795(1.79) 2059-2085(1.30) 2818-2846(3.58) 3108-3134(3.82) 3206-3231(0.90) 3249-3274(1.16) 3356-3382(1.72) 3714-3740(0.98)
gnl UG Hs#S4840949	2.84	3 620-645(2.84) 910-935(0.20) 1044-1072(2.36)
gnl UG Hs#S1727960	5.96	1 272-297(5.96)
gnl UG Hs#S4285005	1	1 701-729(1.00)
gnl UG Hs#S3603862	0.76	1 378-403(0.76)

gnl UG Hs#S3826039	0.4	1 778-803(0.40)
gnl UG Hs#S3619192	5.62	5 365-390(5.62) 577-602(0.92) 688-714(1.18) 923-948(0.50) 1474-1499(2.84)
gnl UG Hs#S1570309	1.55	1 566-591(1.55)
gnl UG Hs#S3219936	1.39	6 213-240(0.94) 966-992(1.08) 2283-2308(0.62) 2431-2456(1.39) 2625-2651(0.17) 2668-2693(1.20)
gnl UG Hs#S1728861	1.11	2 115-141(1.01) 254-279(1.11)
gnl UG Hs#S4830985	1.91	2 1831-1855(0.04) 1960-1988(1.91)
gnl UG Hs#S7111907	3.62	4 7-32(0.63) 388-414(0.69) 865-893(0.42) 952-977(3.62)
gnl UG Hs#S7110383	2.98	2 960-985(1.85) 1611-1635(2.98)
gnl UG Hs#S4283266	0.17	2 472-497(0.08) 602-627(0.17)
gnl UG Hs#S1728126	1.65	2 412-437(0.74) 1560-1585(1.65)
gnl UG Hs#S1726773	0.55	1 520-545(0.55)
gnl UG Hs#S3322813	0.81	1 636-664(0.81)
gnl UG Hs#S2140115	4.21	2 105-131(0.23) 319-344(4.21)
gnl UG Hs#S3219059	2.72	2 254-279(2.72) 825-850(0.30)
gnl UG Hs#S1728247	1.94	1 230-258(1.94)
gnl UG Hs#S2139396	1.58	2 18-44(1.58) 160-188(1.30)
gnl UG Hs#S4554647	1.72	2 57-82(1.72) 540-568(0.94)
gnl UG Hs#S5978588	0.23	1 631-657(0.23)
gnl UG Hs#S1731725	0.98	1 123-148(0.98)
gnl UG Hs#S3973027	3.97	3 454-482(0.66) 954-979(3.97) 1447-1473(1.27)
gnl UG Hs#S1728477	0.4	3 292-316(0.14) 671-696(0.02) 1212-1237(0.40)
gnl UG Hs#S2139718	2.47	3 68-93(2.47) 214-239(1.30) 1063-1088(0.98)
gnl UG Hs#S3619735	0.88	3 100-125(0.88) 604-629(0.26) 790-815(0.01)
gnl UG Hs#S4822011	2.62	2 1457-1482(1.72) 1665-1691(2.62)
gnl UG Hs#S5494983	0.56	1 344-367(0.56)
gnl UG Hs#S2293834	1.01	2 78-105(1.01) 316-341(0.14)
gnl UG Hs#S2140370	5.52	6 584-609(5.52) 665-690(1.21) 1357-1383(0.62) 1526-1552(0.27) 1660-1686(1.08) 2203-2229(0.44)
gnl UG Hs#S3619168	0.04	1 504-529(0.04)
gnl UG Hs#S4546049	3.47	3 2100-2128(3.14) 2312-2338(3.47) 2346-2371(2.20)
gnl UG Hs#S2138708	3.62	1 308-336(3.62)
gnl UG Hs#S3603083	4.89	9 535-561(3.76) 593-618(2.79) 963-988(2.36) 1301-1326(4.89) 1731-1754(0.51) 2153-2178(0.46) 2332-2357(0.46) 2506-2534(0.91) 3288-3315(0.52)
gnl UG Hs#S1730316	3.5	5 582-608(3.50) 612-637(1.62) 879-904(0.26) 1084-1110(0.23) 2771-2796(1.21)
gnl UG Hs#S2294297	2.01	4 379-403(1.94) 518-544(0.49) 975-1000(2.01) 1034-1059(1.26)
gnl UG Hs#S4545955	0.4	1 27-52(0.40)
gnl UG Hs#S1971572	1.94	1 1668-1693(1.94)
gnl UG Hs#S11046977	0.44	1 1632-1658(0.44)
gnl UG Hs#S4818186	1.01	2 271-299(1.01) 531-557(0.89)
gnl UG Hs#S2139518	2.08	2 474-500(2.08) 4533-4558(0.30)
gnl UG Hs#S1729962	0.94	2 2-26(0.11) 121-146(0.94)
gnl UG Hs#S4045805	1.3	1 706-731(1.30)
gnl UG Hs#S5930851	0.18	1 2170-2196(0.18)
gnl UG Hs#S3988019	1.48	1 141-165(1.48)
gnl UG Hs#S1730692	1.55	3 1477-1502(0.62) 2371-2397(1.55) 2423-2449(1.01)
gnl UG Hs#S2293645	1.76	4 100-126(1.76) 256-282(0.23) 897-922(1.57) 953-980(0.39)
gnl UG Hs#S3438789	2.85	1 28-53(2.85)
gnl UG Hs#S5930821	2.57	3 227-253(0.98) 266-291(0.69) 452-477(2.57)
gnl UG Hs#S1367625	1.97	1 556-581(1.97)
gnl UG Hs#S1729693	0.75	1 67-95(0.75)
gnl UG Hs#S1730671	1.04	1 64-89(1.04)
gnl UG Hs#S1727897	0.2	1 413-438(0.20)
gnl UG Hs#S15640053	1.4	1 764-787(1.40)
gnl UG Hs#S3987135	0.72	2 1284-1310(0.11) 1429-1454(0.72)
gnl UG Hs#S4821845	3.4	3 228-254(3.40) 435-460(0.53) 514-540(0.46)
gnl UG Hs#S4809516	2.23	5 706-732(0.89) 1090-1115(0.72) 2564-2591(1.14) 3711-3737(2.15) 3747-3773(2.23)

gnl UG Hs#S7112114	5.94	1 339-364(5.94)
gnl UG Hs#S3355697	1.91	1 96-121(1.91)
gnl UG Hs#S4435529	0.82	2 48-73(0.21) 600-625(0.82)
gnl UG Hs#S1730801	3.72	10 6-32(2.53) 196-223(1.41) 470-495(3.72) 817-842(0.84) 965-990(0.97) 1465-1492(1.94) 1955-1980(1.05) 2194-2220(1.69) 2238-2264(0.04) 2484-2509(0.23)
gnl UG Hs#S1727947	1.53	1 2572-2597(1.53)
gnl UG Hs#S3438389	3.11	2 236-261(3.11) 1503-1529(1.64)
gnl UG Hs#S1569867	0.72	3 201-227(0.04) 364-389(0.72) 598-624(0.14)
gnl UG Hs#S3220202	1.64	5 1039-1064(0.75) 1154-1182(1.64) 1422-1447(0.20) 2512-2538(0.17) 2543-2568(0.13)
gnl UG Hs#S4621613	0.66	1 389-414(0.66)
gnl UG Hs#S1730968	1.23	2 789-814(1.23) 1940-1966(0.10)
gnl UG Hs#S1729912	0.57	1 80-106(0.57)
gnl UG Hs#S3219941	3.5	1 307-333(3.50)
gnl UG Hs#S1727259	1.34	1 459-483(1.34)
gnl UG Hs#S2293677	1.08	3 1424-1449(1.08) 1532-1558(0.30) 1764-1789(0.46)
gnl UG Hs#S1726956	0.11	1 209-235(0.11)
gnl UG Hs#S10831830	0.49	1 625-653(0.49)
gnl UG Hs#S4827242	3.69	3 184-212(1.81) 351-376(0.01) 416-441(3.69)
gnl UG Hs#S1727919	3.04	1 451-476(3.04)
gnl UG Hs#S1727807	0.79	2 179-204(0.04) 342-367(0.79)
gnl UG Hs#S4620211	5.35	3 923-949(5.35) 1322-1347(0.97) 2132-2157(0.91)
gnl UG Hs#S2139034	2.23	2 33-59(2.23) 364-390(0.27)
gnl UG Hs#S2294628	2.68	1 388-413(2.68)
gnl UG Hs#S1726544	0.65	1 188-211(0.65)
gnl UG Hs#S2293209	1.78	3 95-121(1.78) 411-436(0.30) 487-515(1.40)
gnl UG Hs#S4813245	2.13	6 178-203(0.30) 317-343(0.54) 367-393(0.72) 615-640(2.13) 783-808(0.84) 930-958(0.04)
gnl UG Hs#S1729926	0.08	1 976-1002(0.08)
gnl UG Hs#S1731442	1.07	1 338-363(1.07)
gnl UG Hs#S4046238	0.62	1 1275-1303(0.62)
gnl UG Hs#S2139975	0.89	1 464-490(0.89)
gnl UG Hs#S1727460	1.88	2 537-564(0.13) 1384-1412(1.88)
gnl UG Hs#S1729277	3.3	6 193-218(0.62) 342-368(0.57) 1066-1094(0.30) 1351-1376(3.30) 1867-1892(1.14) 1908-1934(0.49)
gnl UG Hs#S1729759	0.79	1 1412-1438(0.79)
gnl UG Hs#S1730260	1.4	1 280-308(1.40)
gnl UG Hs#S4828011	4.04	4 251-275(0.88) 406-431(1.46) 436-461(3.94) 497-522(4.04)
gnl UG Hs#S3219666	0.14	1 787-815(0.14)
gnl UG Hs#S14272885	2.56	3 111-137(2.56) 261-289(0.33) 320-345(1.33)
gnl UG Hs#S3601778	1.79	2 58-84(1.79) 101-126(0.20)
gnl UG Hs#S4553483	2.79	3 32-58(2.26) 378-403(2.79) 702-727(1.46)
gnl UG Hs#S3601543	3.58	2 191-216(3.58) 245-271(0.04)
gnl UG Hs#S2140327	3.25	7 362-387(0.20) 776-801(3.25) 855-881(3.15) 914-939(1.75) 1128-1154(1.91) 1213-1238(2.03) 1309-1334(1.07)
gnl UG Hs#S3439043	3.63	3 751-776(1.30) 947-972(0.66) 1262-1287(3.63)
gnl UG Hs#S1728154	2	2 368-392(2.00) 393-417(1.21)
gnl UG Hs#S1727571	3.88	4 131-155(0.36) 483-508(0.13) 726-754(3.88) 900-930(0.03)
gnl UG Hs#S1727552	0.26	1 251-274(0.26)
gnl UG Hs#S3987807	3.26	1 110-135(3.26)
gnl UG Hs#S1731576	3.21	2 12-38(0.24) 143-168(3.21)
gnl UG Hs#S14812644	0.68	1 402-428(0.68)
gnl UG Hs#S4045725	1.4	3 936-962(1.40) 1123-1149(0.62) 1174-1199(1.40)
gnl UG Hs#S1729739	1.3	2 324-350(0.83) 566-590(1.30)
gnl UG Hs#S3219911	0.89	1 402-428(0.89)
gnl UG Hs#S14273229	2.72	1 1122-1147(2.72)
gnl UG Hs#S4284975	0.62	1 51-75(0.62)
gnl UG Hs#S3880622	0.16	1 1218-1246(0.16)
gnl UG Hs#S1824539	1.4	1 115-140(1.40)

gnl UG Hs#S2140516	0.78	3	930-954(0.78) 1483-1508(0.46) 1595-1620(0.23)
gnl UG Hs#S1732448	0.91	2	295-321(0.91) 734-763(0.88)
gnl UG Hs#S3603870	0.62	1	1146-1174(0.62)
gnl UG Hs#S4623548	1.3	1	1605-1630(1.30)
gnl UG Hs#S7110345	1.24	1	216-241(1.24)
gnl UG Hs#S4808633	2.72	6	248-274(1.08) 561-586(0.17) 990-1015(2.72) 1717-1741(1.73) 2299-2324(1.04) 2535-2560(0.40)
gnl UG Hs#S1727835	2.04	1	534-559(2.04)
gnl UG Hs#S3219504	2.04	3	1165-1190(0.33) 1215-1239(1.91) 1347-1375(2.04)
gnl UG Hs#S4283789	2.78	4	184-209(0.40) 1172-1197(0.40) 1287-1312(0.76) 1460-1485(2.78)
gnl UG Hs#S2138910	1.88	2	423-451(1.88) 536-561(1.17)
gnl UG Hs#S2294409	0.45	1	277-305(0.45)
gnl UG Hs#S1731773	1.43	5	242-268(0.77) 393-418(0.45) 658-682(0.08) 1056-1081(1.43) 1137-1165(0.35)
gnl UG Hs#S4807825	3.86	2	342-367(3.30) 473-498(3.86)
gnl UG Hs#S1732203	0.72	1	34-59(0.72)
gnl UG Hs#S1972400	2.72	3	681-707(0.08) 1749-1774(2.72) 1788-1813(0.79)
gnl UG Hs#S2139557	1.72	4	314-339(0.20) 573-598(0.30) 1063-1089(1.72) 1232-1258(0.30)
gnl UG Hs#S3220074	1.32	1	1222-1247(1.32)
gnl UG Hs#S4553560	0.37	1	279-304(0.37)
gnl UG Hs#S3219895	1.23	1	116-145(1.23)
gnl UG Hs#S1731697	1.94	2	329-354(1.94) 824-851(1.62)
gnl UG Hs#S4619406	1.37	5	957-982(0.81) 1273-1298(0.20) 1809-1837(1.37) 2041-2066(0.90) 2188-2216(0.49)
gnl UG Hs#S3619315	0.27	1	325-351(0.27)
gnl UG Hs#S4830021	3.4	5	392-416(3.40) 510-536(0.27) 903-928(2.26) 970-995(3.30) 1241-1266(1.08)
gnl UG Hs#S10832381	1.58	5	633-658(0.37) 661-688(0.74) 1231-1256(0.07) 1372-1398(1.58) 3051-3076(0.97)
gnl UG Hs#S3880641	0.98	2	1398-1423(0.72) 1476-1501(0.98)
gnl UG Hs#S1729164	1.81	5	16-43(0.88) 78-106(1.81) 141-166(1.04) 174-199(0.14) 358-383(1.33)
gnl UG Hs#S1367636	0.17	1	1537-1562(0.17)
gnl UG Hs#S4435657	6.04	1	407-433(6.04)
gnl UG Hs#S2138978	1.94	2	483-509(1.94) 798-823(1.72)
gnl UG Hs#S2139875	0.99	1	495-519(0.99)
gnl UG Hs#S3355545	4.14	2	609-635(0.88) 680-705(4.14)
gnl UG Hs#S2293215	0.72	2	535-560(0.72) 739-765(0.17)
gnl UG Hs#S4806165	3.04	5	403-429(2.33) 582-607(0.86) 2038-2063(3.04) 2728-2756(0.49) 2917-2943(2.27)
gnl UG Hs#S1726616	0.5	1	929-954(0.50)
gnl UG Hs#S1732403	0.8	2	226-251(0.17) 399-424(0.80)
gnl UG Hs#S10832188	0.53	1	253-278(0.53)
gnl UG Hs#S3601777	2.3	3	121-147(0.57) 158-184(1.86) 646-671(2.30)
gnl UG Hs#S15638574	0.77	3	440-465(0.40) 503-529(0.77) 708-736(0.03)
gnl UG Hs#S1727635	1.66	1	631-659(1.66)
gnl UG Hs#S4618009	0.39	1	622-647(0.39)
gnl UG Hs#S3438795	2.3	2	242-267(0.65) 337-362(2.30)
gnl UG Hs#S12743751	2.67	4	1167-1195(0.66) 1409-1434(1.40) 1931-1957(2.67) 2367-2395(1.66)
gnl UG Hs#S816208	1.66	1	156-183(1.66)
gnl UG Hs#S1727242	1.73	2	1123-1149(1.04) 2543-2568(1.73)
gnl UG Hs#S4807571	0.91	1	244-270(0.91)
gnl UG Hs#S15898552	1.58	3	342-368(0.57) 5809-5835(1.32) 6261-6286(1.58)
gnl UG Hs#S4820146	1.71	1	609-637(1.71)
gnl UG Hs#S1731224	6.85	4	670-695(1.05) 2844-2869(0.62) 3687-3711(3.08) 4201-4226(6.85)
gnl UG Hs#S2140643	2.23	2	100-124(0.36) 190-216(2.23)
gnl UG Hs#S1728418	0.82	1	887-912(0.82)
gnl UG Hs#S1730546	3.08	5	261-287(3.08) 1302-1328(1.43) 1392-1417(0.84) 2020-2045(0.57) 2173-2201(0.08)
gnl UG Hs#S15643955	3.52	2	184-209(3.52) 1552-1576(0.07)
gnl UG Hs#S2139307	2.84	4	2069-2095(2.40) 2720-2745(2.84) 2763-2789(0.72) 3258-3281(0.30)
gnl UG Hs#S2294189	0.34	1	609-634(0.34)

gnl UG Hs#S15638818	2.2	12 243-270(1.89) 550-575(0.38) 2076-2101(0.44) 2301-2327(2.04) 2540-2566(1.44) 2643-2669(2.20) 2954-2979(0.40) 2985-3009(0.86) 4259-4287(0.26) 4405-4433(1.15) 4794-4819(0.14) 5357-5382(0.75)
gnl UG Hs#S1726290	0.75	1 458-486(0.75)
gnl UG Hs#S2140235	2.98	5 1010-1035(0.85) 1065-1089(0.04) 1238-1263(2.46) 1272-1300(2.88) 1319-1345(2.98)
gnl UG Hs#S4396086	0.59	1 29-55(0.59)
gnl UG Hs#S2139847	2.66	5 187-212(0.46) 541-569(0.52) 1131-1159(2.66) 1184-1211(0.46) 1257-1283(0.62)
gnl UG Hs#S1731717	0.84	2 1269-1294(0.84) 1352-1377(0.84)
gnl UG Hs#S1729793	3	7 916-941(2.79) 1087-1112(0.46) 1154-1179(3.00) 1339-1365(2.34) 1492-1520(2.10) 1692-1717(1.26) 1798-1824(1.67)
gnl UG Hs#S2293852	1.72	1 464-489(1.72)
gnl UG Hs#S4631392	2.94	3 1090-1115(2.57) 1589-1614(2.94) 2008-2034(2.50)
gnl UG Hs#S3219377	2.98	3 2600-2625(2.58) 4564-4591(2.98) 4858-4885(0.17)
gnl UG Hs#S2294288	3.15	1 196-221(3.15)
gnl UG Hs#S4553585	1.81	1 459-486(1.81)
gnl UG Hs#S2294215	1.98	1 5-30(1.98)
gnl UG Hs#S1727062	3.36	8 723-747(0.35) 1538-1563(0.62) 1695-1720(3.36) 2209-2235(0.36) 2354-2379(0.55) 2825-2850(0.46) 3343-3366(0.07) 3693-3719(0.69)
gnl UG Hs#S2140171	1.98	1 825-851(1.98)
gnl UG Hs#S4807568	0.04	1 396-421(0.04)
gnl UG Hs#S5978415	1.08	2 445-471(1.08) 598-623(0.24)
gnl UG Hs#S4045982	1.03	2 194-220(0.72) 881-909(1.03)
gnl UG Hs#S1732192	0.23	1 808-834(0.23)
gnl UG Hs#S3603186	0.25	1 83-106(0.25)
gnl UG Hs#S5978569	4.3	8 665-690(1.14) 763-787(2.10) 2094-2122(0.87) 2333-2359(0.24) 2595-2621(1.27) 2624-2649(4.30) 3144-3172(0.03) 3239-3264(1.21)
gnl UG Hs#S2139594	0.84	3 364-389(0.48) 785-810(0.56) 998-1023(0.84)
gnl UG Hs#S1726675	1.4	1 3584-3612(1.40)
gnl UG Hs#S1727419	0.59	1 149-174(0.59)
gnl UG Hs#S3601598	2.12	4 256-284(0.08) 332-358(2.12) 590-613(0.89) 895-921(1.46)
gnl UG Hs#S15644267	3.4	3 276-301(0.13) 361-387(1.62) 553-579(3.40)
gnl UG Hs#S4821728	2.92	1 1431-1456(2.92)
gnl UG Hs#S2294029	5.79	2 76-101(5.79) 480-505(0.14)
gnl UG Hs#S15632493	1.71	1 278-305(1.71)
gnl UG Hs#S2140020	2.26	3 160-185(2.26) 237-262(0.07) 409-434(0.26)
gnl UG Hs#S5978512	1.65	1 415-442(1.65)
gnl UG Hs#S3218929	3.2	2 1071-1096(0.40) 1152-1177(3.20)
gnl UG Hs#S1728859	0.17	1 2296-2321(0.17)
gnl UG Hs#S2139658	0.17	1 1008-1033(0.17)
gnl UG Hs#S1728508	2.82	1 532-557(2.82)
gnl UG Hs#S2294302	2.46	5 112-137(0.53) 430-456(1.82) 1517-1545(0.08) 1556-1585(0.56) 1826-1851(2.46)
gnl UG Hs#S3438907	4.08	1 279-305(4.08)
gnl UG Hs#S4807779	1.6	2 2106-2132(1.60) 2215-2242(1.47)
gnl UG Hs#S4546086	3.2	7 301-328(3.20) 652-677(0.30) 1218-1246(0.98) 1714-1742(0.33) 1746-1774(0.58) 1888-1913(0.82) 2009-2034(0.04)
gnl UG Hs#S2294393	1.3	1 1071-1096(1.30)
gnl UG Hs#S1730669	0.16	1 35-63(0.16)
gnl UG Hs#S2293768	2.8	2 734-760(2.80) 1087-1114(1.39)
gnl UG Hs#S2139457	0.17	1 5530-5555(0.17)
gnl UG Hs#S4824258	2.4	7 106-132(1.62) 672-699(1.92) 729-755(0.66) 958-985(0.85) 1578-1606(2.40) 1695-1720(0.14) 2774-2799(0.65)
gnl UG Hs#S4553450	1.4	2 583-609(1.40) 759-784(0.84)
gnl UG Hs#S1728579	2.61	1 23-48(2.61)
gnl UG Hs#S4546004	3.82	1 287-312(3.82)
gnl UG Hs#S4821332	1.06	5 100-123(1.06) 1691-1716(0.62) 1905-1930(0.67) 4320-4348(1.03) 4922-4945(1.02)
gnl UG Hs#S2140305	0.49	2 364-391(0.17) 433-461(0.49)
gnl UG Hs#S2139184	0.54	1 94-120(0.54)
gnl UG Hs#S3219260	0.59	4 466-491(0.26) 743-769(0.59) 2027-2052(0.04) 2316-2344(0.08)
gnl UG Hs#S1730209	2.06	1 278-303(2.06)
gnl UG Hs#S472607	2.72	1 150-176(2.72)
gnl UG Hs#S7111155	1.5	2 1478-1506(0.71) 2064-2089(1.50)

gnl UG Hs#S4811302	2.82	8	1080-1105(2.52) 1370-1395(0.24) 1856-1882(0.97) 1935-1960(0.13) 1968-1993(1.43) 2394-2419(1.95) 3412-3437(1.47) 3479-3505(2.82)
gnl UG Hs#S2294348	3.88	5	389-415(0.50) 503-531(0.71) 606-631(0.33) 1800-1823(0.62) 1907-1935(3.88)
gnl UG Hs#S1732121	0.26	1	174-201(0.26)
gnl UG Hs#S1731497	0.01	1	286-312(0.01)
gnl UG Hs#S4631420	2.5	1	758-784(2.50)
gnl UG Hs#S2139292	1.4	2	173-198(1.40) 633-659(1.01)
gnl UG Hs#S1728733	2.72	1	145-171(2.72)
gnl UG Hs#S4554163	1.58	5	1261-1288(1.57) 1949-1974(0.65) 2159-2184(0.98) 2304-2331(1.58) 2433-2458(0.91)
gnl UG Hs#S5860347	0.86	3	456-481(0.79) 989-1014(0.82) 1579-1605(0.86)
gnl UG Hs#S15631442	2.5	4	349-375(1.62) 628-654(2.50) 738-763(0.82) 848-872(1.57)
gnl UG Hs#S1730066	1.57	3	1240-1265(1.57) 1271-1296(0.40) 1307-1333(1.04)
gnl UG Hs#S1730493	4.39	3	1119-1147(4.39) 1173-1199(1.59) 1202-1227(0.84)
gnl UG Hs#S1726821	0.18	1	838-863(0.18)
gnl UG Hs#S1727761	0.63	1	278-303(0.63)
gnl UG Hs#S3220122	0.98	2	124-150(0.98) 1272-1297(0.33)
gnl UG Hs#S15631564	2.58	2	118-143(2.58) 540-565(0.84)
gnl UG Hs#S2140412	0.5	1	323-348(0.50)
gnl UG Hs#S3547215	3.4	2	1428-1453(0.67) 1582-1607(3.40)
gnl UG Hs#S1727272	0.91	1	217-242(0.91)
gnl UG Hs#S2139680	0.72	1	597-622(0.72)
gnl UG Hs#S2139935	0.98	2	26-51(0.98) 159-184(0.30)
gnl UG Hs#S1727439	1.9	5	98-122(0.13) 499-523(1.90) 530-556(0.27) 835-861(0.72) 1011-1037(1.50)
gnl UG Hs#S2138669	2.3	1	552-577(2.30)
gnl UG Hs#S1731029	4.69	2	66-92(4.69) 940-963(1.02)
gnl UG Hs#S3219203	3.53	4	220-245(3.53) 726-751(2.04) 1344-1367(1.28) 1572-1600(2.10)
gnl UG Hs#S2293342	4.3	8	255-280(2.08) 331-359(4.30) 435-461(0.89) 504-528(1.93) 536-561(1.04) 572-598(0.72) 741-766(0.59) 1042-1069(0.20)
gnl UG Hs#S1726631	0.62	1	65-90(0.62)
gnl UG Hs#S2293870	2.5	2	122-148(0.86) 158-184(2.50)
gnl UG Hs#S7111178	1.26	1	134-159(1.26)
gnl UG Hs#S1731715	1.3	4	269-294(1.30) 493-519(0.44) 946-971(0.65) 1100-1125(0.98)
gnl UG Hs#S3439086	0.13	1	505-531(0.13)
gnl UG Hs#S4614378	2.2	4	419-444(2.20) 462-487(1.47) 662-690(0.23) 1200-1225(0.30)
gnl UG Hs#S1727794	1.2	2	573-599(1.20) 756-781(0.04)
gnl UG Hs#S4615079	3.85	3	115-141(0.27) 570-595(3.85) 1000-1025(1.56)
gnl UG Hs#S3333498	4.14	11	888-916(0.66) 1004-1030(0.26) 1078-1102(3.11) 1308-1333(1.32) 1354-1380(0.30) 1663-1688(4.14) 1737-1762(0.40) 2169-2196(0.52) 2508-2534(3.62) 3409-3434(0.65) 3582-3608(0.56)
gnl UG Hs#S3219229	1.4	1	138-163(1.40)
gnl UG Hs#S15115719	3.62	2	219-244(3.62) 321-346(0.57)
gnl UG Hs#S15639942	2.08	1	152-178(2.08)
gnl UG Hs#S1731090	3.33	2	487-513(3.33) 536-561(1.49)
gnl UG Hs#S2293448	0.84	1	553-578(0.84)
gnl UG Hs#S5978631	1.23	2	412-437(0.30) 3328-3354(1.23)
gnl UG Hs#S1731461	0.12	1	536-562(0.12)
gnl UG Hs#S1730984	0.94	1	34-63(0.94)
gnl UG Hs#S1728813	0.43	1	129-155(0.43)
gnl UG Hs#S1732026	3.36	3	242-268(0.04) 735-762(3.36) 798-823(0.55)
gnl UG Hs#S10832093	1.5	1	65-93(1.50)
gnl UG Hs#S5930818	3.46	6	731-760(0.30) 1460-1485(1.20) 1950-1979(0.05) 3488-3513(0.72) 4468-4493(1.62) 4600-4625(3.46)
gnl UG Hs#S1727169	0.13	1	213-238(0.13)
gnl UG Hs#S5978626	4.37	8	767-791(3.75) 921-946(0.40) 1202-1228(0.97) 1436-1461(0.26) 2186-2212(4.37) 2258-2284(0.30) 2443-2468(3.53) 2839-2864(0.84)
gnl UG Hs#S2138672	0.33	1	59-84(0.33)
gnl UG Hs#S15631677	2.35	2	2020-2045(2.35) 2217-2242(0.74)
gnl UG Hs#S3973103	0.82	1	316-341(0.82)
gnl UG Hs#S4273	1.97	1	1118-1143(1.97)
gnl UG Hs#S4806548	2.3	1	686-712(2.30)

gnl UG Hs#S2293787	1.82	1 155-181(1.82)
gnl UG Hs#S7111834	1.19	1 910-940(1.19)
gnl UG Hs#S14813045	1.33	2 2040-2065(1.33) 3765-3790(1.01)
gnl UG Hs#S3220037	1.53	1 106-131(1.53)
gnl UG Hs#S3220019	1.9	6 43-68(1.90) 714-741(0.20) 1647-1673(1.43) 2387-2415(1.66) 2683-2711(1.74) 2789-2817(0.01)
gnl UG Hs#S2294424	0.43	2 432-459(0.13) 585-613(0.43)
gnl UG Hs#S2294335	1.98	2 215-243(1.66) 685-710(1.98)
gnl UG Hs#S1824394	1.71	3 246-274(0.66) 622-650(1.71) 777-802(0.11)
gnl UG Hs#S4631515	0.03	1 456-481(0.03)
gnl UG Hs#S1731545	3.91	5 138-163(0.79) 436-461(3.91) 483-511(0.84) 518-543(1.40) 1190-1215(0.53)
gnl UG Hs#S5978593	1.2	2 2616-2641(1.20) 2848-2873(0.98)
gnl UG Hs#S3219181	0.17	1 281-306(0.17)
gnl UG Hs#S2139821	4.53	5 188-213(0.17) 326-351(4.53) 697-723(0.62) 2708-2734(3.33) 3298-3324(0.46)
gnl UG Hs#S4807834	1.99	1 158-185(1.99)
gnl UG Hs#S11046740	1.82	1 245-271(1.82)
gnl UG Hs#S3439037	1.89	3 705-730(1.89) 774-799(1.72) 952-977(0.66)
gnl UG Hs#S3602291	2.11	9 598-623(1.08) 688-711(2.11) 805-830(0.23) 1201-1226(0.66) 1574-1603(0.88) 1632-1659(0.56) 1789-1816(1.49) 1981-2007(0.72) 2355-2380(0.52)
gnl UG Hs#S3219450	6.03	3 203-228(1.78) 1141-1166(0.46) 2761-2787(6.03)
gnl UG Hs#S15633955	1.39	1 108-134(1.39)
gnl UG Hs#S3438708	4.57	1 260-286(4.57)
gnl UG Hs#S3601486	0.3	1 145-170(0.30)
gnl UG Hs#S3619348	0.4	1 435-461(0.40)
gnl UG Hs#S4392025	0.08	1 979-1007(0.08)
gnl UG Hs#S1731900	0.13	1 46-71(0.13)
gnl UG Hs#S1731132	2.66	2 383-408(2.66) 569-597(1.66)
gnl UG Hs#S6163297	0.5	1 398-422(0.50)
gnl UG Hs#S3905470	0.96	4 638-664(0.12) 703-731(0.96) 741-769(0.10) 949-974(0.20)
gnl UG Hs#S6693364	1.26	2 2449-2474(0.98) 2517-2542(1.26)
gnl UG Hs#S1569499	3.3	3 1481-1506(0.55) 4039-4064(3.30) 4071-4097(0.26)
gnl UG Hs#S2293600	2.52	1 85-113(2.52)
gnl UG Hs#S2139147	1.59	1 803-831(1.59)
gnl UG Hs#S1730892	1.3	1 6402-6430(1.30)
gnl UG Hs#S1728772	1.3	4 344-369(1.30) 612-637(0.68) 752-777(1.05) 1085-1111(1.17)
gnl UG Hs#S1726740	0.03	1 11-37(0.03)
gnl UG Hs#S15638164	3.5	2 595-623(1.88) 2742-2768(3.50)
gnl UG Hs#S1730595	4.42	1 167-194(4.42)
gnl UG Hs#S4824394	2.79	10 362-387(2.79) 590-616(1.41) 759-784(0.32) 1267-1292(0.68) 1654-1679(1.46) 1694-1722(0.72) 1865-1890(2.20) 1921-1946(0.98) 2354-2379(0.33) 2512-2538(0.72)
gnl UG Hs#S2294670	0.5	1 396-421(0.50)
gnl UG Hs#S1728111	4.57	1 182-210(4.57)
gnl UG Hs#S3881031	3.04	1 461-486(3.04)
gnl UG Hs#S15638319	2.34	1 319-344(2.34)
gnl UG Hs#S3603202	0.52	2 571-596(0.33) 898-924(0.52)
gnl UG Hs#S1732053	1.1	5 218-243(0.72) 292-317(0.63) 1957-1982(0.34) 2379-2407(0.61) 3241-3268(1.10)
gnl UG Hs#S1732387	1.56	2 50-78(1.56) 380-405(1.27)
gnl UG Hs#S3219931	1.79	4 509-534(1.59) 660-687(1.79) 720-748(0.48) 969-994(0.97)
gnl UG Hs#S1727116	4.15	3 34-60(0.14) 160-185(0.23) 227-253(4.15)
gnl UG Hs#S3547255	3.34	2 804-830(3.34) 1611-1636(2.72)
gnl UG Hs#S1728118	3.36	4 1772-1798(1.08) 1818-1843(0.41) 3299-3324(3.36) 4439-4467(0.17)
gnl UG Hs#S2294209	6.18	1 1899-1925(6.18)
gnl UG Hs#S7111451	1.4	1 607-632(1.40)
gnl UG Hs#S1732254	0.27	2 204-228(0.19) 562-590(0.27)
gnl UG Hs#S1728555	2.08	1 466-492(2.08)
gnl UG Hs#S15643743	2.11	8 895-919(1.56) 1158-1183(0.23) 2094-2120(0.82) 2245-2272(1.03) 2352-2377(1.72) 2441-2466(0.11) 2514-2540(1.50) 2604-2629(2.11)
gnl UG Hs#S1730515	1.63	1 31-54(1.63)

gnl UG Hs#S1731933	2.17	2 42-67(0.67) 518-543(2.17)
gnl UG Hs#S3219434	1.08	1 108-133(1.08)
gnl UG Hs#S5978534	2.04	1 1769-1794(2.04)
gnl UG Hs#S2139538	2.43	6 1655-1680(0.82) 2289-2314(1.84) 2442-2468(1.40) 2482-2507(2.11) 2597-2628(2.43) 2678-2705(2.34)
gnl UG Hs#S10831706	2.17	2 274-299(2.13) 859-885(2.17)
gnl UG Hs#S1726662	0.26	1 816-841(0.26)
gnl UG Hs#S3219436	0.27	2 1303-1329(0.08) 1444-1472(0.27)
gnl UG Hs#S3439033	2.46	2 445-470(2.46) 572-597(1.08)
gnl UG Hs#S1727774	3.46	1 1141-1166(3.46)
gnl UG Hs#S3814671	0.44	1 1081-1109(0.44)
gnl UG Hs#S1728217	7.72	3 112-140(0.08) 1351-1376(1.14) 1727-1752(7.72)
gnl UG Hs#S3940486	4.39	3 25-51(4.39) 544-569(0.33) 1327-1353(1.59)
gnl UG Hs#S1728395	2.17	3 668-693(1.21) 992-1017(2.17) 1169-1196(1.14)
gnl UG Hs#S4283229	2.14	2 90-115(2.14) 1219-1243(1.13)
gnl UG Hs#S3220170	1.57	1 124-150(1.57)
gnl UG Hs#S1972896	2.08	1 146-171(2.08)
gnl UG Hs#S1726962	1.98	2 118-144(1.98) 303-328(1.01)
gnl UG Hs#S15639796	1.13	2 540-565(1.13) 680-705(0.39)
gnl UG Hs#S3973068	1.75	3 1251-1277(1.75) 1427-1455(0.49) 1732-1760(0.81)
gnl UG Hs#S3542630	1.55	3 540-566(1.55) 862-890(0.17) 921-947(0.01)
gnl UG Hs#S816222	0.87	1 40-63(0.87)
gnl UG Hs#S1728537	0.04	1 15-37(0.04)
gnl UG Hs#S7111472	0.36	1 677-700(0.36)
gnl UG Hs#S2140406	0.3	1 261-286(0.30)
gnl UG Hs#S1729866	0.81	1 625-651(0.81)
gnl UG Hs#S15631403	2.82	1 98-123(2.82)
gnl UG Hs#S4807924	0.14	2 19-44(0.14) 390-415(0.13)
gnl UG Hs#S5978508	3.79	6 296-321(2.87) 346-371(3.79) 404-432(2.36) 613-638(0.08) 1402-1427(3.04) 1442-1467(1.72)
gnl UG Hs#S5979194	0.81	1 450-475(0.81)
gnl UG Hs#S1728034	1.17	1 212-237(1.17)
gnl UG Hs#S11046677	0.72	1 526-553(0.72)
gnl UG Hs#S3601601	1.65	2 707-733(1.65) 1067-1095(0.04)
gnl UG Hs#S1731503	0.17	1 321-347(0.17)
gnl UG Hs#S2138782	2.13	2 424-449(2.13) 528-553(0.91)
gnl UG Hs#S3817945	0.57	1 622-647(0.57)
gnl UG Hs#S2140578	2.94	5 189-214(0.08) 993-1019(0.62) 1052-1081(0.61) 1741-1767(2.94) 1943-1968(1.48)
gnl UG Hs#S2140291	1.15	4 149-174(1.15) 197-222(1.00) 1346-1371(0.14) 1583-1608(0.28)
gnl UG Hs#S1728631	0.5	1 257-283(0.50)
gnl UG Hs#S3881188	2.3	1 306-331(2.30)
gnl UG Hs#S1730790	1.65	2 377-403(0.14) 1067-1092(1.65)
gnl UG Hs#S1729786	3.72	4 120-145(1.32) 201-227(0.21) 606-631(3.72) 674-703(1.30)
gnl UG Hs#S4826019	3.33	4 651-677(1.15) 2290-2316(0.43) 2428-2455(3.33) 2519-2544(0.33)
gnl UG Hs#S4554469	3.42	3 183-211(1.08) 545-571(3.42) 1121-1149(0.69)
gnl UG Hs#S1824507	1.45	2 159-185(1.45) 308-333(0.94)
gnl UG Hs#S3438746	2.5	1 2710-2736(2.50)
gnl UG Hs#S4807693	2.3	4 24-52(0.84) 535-561(2.30) 661-687(1.30) 879-904(1.26)
gnl UG Hs#S15641848	0.81	1 412-440(0.81)
gnl UG Hs#S15636794	0.98	1 672-697(0.98)
gnl UG Hs#S3601484	3.04	1 121-147(3.04)
gnl UG Hs#S5517495	0.79	1 1708-1733(0.79)
gnl UG Hs#S6158553	3.3	5 96-122(3.30) 511-536(2.40) 1235-1260(1.89) 2001-2026(0.90) 3041-3069(0.53)
gnl UG Hs#S2293405	0.91	1 207-233(0.91)
gnl UG Hs#S2139550	1.17	1 334-360(1.17)
gnl UG Hs#S3817928	2.23	4 409-435(0.49) 649-672(2.23) 693-718(0.11) 1612-1638(2.08)

gnl UG Hs#S15638669	0.72	1	1147-1173(0.72)
gnl UG Hs#S1728000	3.81	1	592-620(3.81)
gnl UG Hs#S4617047	0.13	1	1081-1106(0.13)
gnl UG Hs#S3219954	0.49	2	89-113(0.49) 228-257(0.43)
gnl UG Hs#S4807913	2.56	2	250-276(0.63) 1511-1535(2.56)
gnl UG Hs#S3542660	0.66	3	254-278(0.66) 584-609(0.37) 614-641(0.24)
gnl UG Hs#S4807588	1.34	1	20-45(1.34)
gnl UG Hs#S3438832	0.27	1	2088-2115(0.27)
gnl UG Hs#S2140222	1.1	1	1-27(1.10)
gnl UG Hs#S4621382	2.2	3	31-56(2.20) 112-140(1.30) 713-738(0.07)
gnl UG Hs#S1729083	1.5	2	420-445(1.50) 1695-1720(1.04)
gnl UG Hs#S4435934	1.43	1	106-132(1.43)
gnl UG Hs#S1728394	4.82	9	335-360(1.17) 420-446(0.27) 1908-1934(3.93) 2058-2083(0.48) 2138-2163(4.82) 2278-2303(1.52) 2502-2527(0.32) 2534-2557(1.40) 2603-2628(1.08)
gnl UG Hs#S1729123	1.89	6	796-824(0.20) 847-873(0.14) 881-909(0.18) 1015-1040(0.85) 1041-1066(1.89) 1203-1229(0.08)
gnl UG Hs#S2293729	5.21	4	110-138(0.23) 191-216(3.37) 776-803(0.16) 1024-1049(5.21)
gnl UG Hs#S6163454	1.13	2	61-86(1.13) 93-121(0.07)
gnl UG Hs#S1973419	0.27	1	781-807(0.27)
gnl UG Hs#S4827985	1.24	2	1145-1171(1.04) 1625-1652(1.24)
gnl UG Hs#S4613283	0.57	2	235-261(0.57) 416-444(0.03)
gnl UG Hs#S2138842	4.16	1	3564-3590(4.16)
gnl UG Hs#S3547083	0.5	1	8-33(0.50)
gnl UG Hs#S3438484	2.86	4	247-270(2.47) 1349-1375(0.59) 2492-2517(2.17) 3260-3286(2.86)
gnl UG Hs#S3547097	0.52	1	192-220(0.52)
gnl UG Hs#S2294042	0.13	1	394-419(0.13)
gnl UG Hs#S1727213	0.72	1	51-76(0.72)
gnl UG Hs#S1726623	2.71	3	649-672(2.27) 1221-1249(2.71) 1583-1608(0.94)
gnl UG Hs#S3601650	0.58	1	808-833(0.58)
gnl UG Hs#S2294180	1.57	2	242-267(1.30) 476-501(1.57)
gnl UG Hs#S2293744	1.01	2	610-633(0.70) 1267-1292(1.01)
gnl UG Hs#S3438890	0.5	1	438-463(0.50)
gnl UG Hs#S2139547	3.13	4	659-684(0.26) 868-893(3.13) 983-1011(0.04) 1633-1658(1.98)
gnl UG Hs#S3355623	1.72	1	733-758(1.72)
gnl UG Hs#S4817817	1.65	2	549-575(1.50) 1132-1157(1.65)
gnl UG Hs#S4283558	0.55	1	1554-1582(0.55)
gnl UG Hs#S2293662	2.94	7	92-117(1.72) 576-601(0.33) 1238-1263(2.94) 1447-1473(0.08) 1606-1633(0.34) 1674-1699(0.82) 1922-1947(0.79)
gnl UG Hs#S15638204	3.82	3	554-579(0.47) 666-693(1.72) 911-937(3.82)
gnl UG Hs#S3803176	4.04	1	314-339(4.04)
gnl UG Hs#S4631295	4.55	2	1170-1196(3.27) 1314-1340(4.55)
gnl UG Hs#S4823941	1.72	2	79-104(1.72) 1247-1275(0.52)
gnl UG Hs#S3618438	0.27	1	96-122(0.27)
gnl UG Hs#S5978516	1.75	4	311-336(0.72) 1297-1322(1.75) 1456-1481(0.17) 2043-2068(0.07)
gnl UG Hs#S15631404	0.17	1	320-345(0.17)
gnl UG Hs#S15730310	1.55	2	6821-6849(0.57) 7182-7208(1.55)
gnl UG Hs#S14802371	4.24	3	898-924(1.33) 1213-1238(1.85) 1291-1320(4.24)
gnl UG Hs#S2139923	0.04	1	137-162(0.04)
gnl UG Hs#S4546008	3.52	2	425-452(3.52) 618-643(1.13)
gnl UG Hs#S3619140	0.72	1	166-191(0.72)
gnl UG Hs#S2293539	2.3	4	1047-1073(0.34) 1103-1128(2.30) 1284-1309(1.20) 1473-1500(0.61)
gnl UG Hs#S1729201	1.59	4	316-341(1.59) 378-404(1.03) 406-432(0.34) 513-538(1.50)
gnl UG Hs#S4831136	1.91	5	2078-2104(1.24) 2146-2171(0.04) 2811-2834(1.13) 2855-2883(0.94) 2931-2956(1.91)
gnl UG Hs#S7113306	0.52	1	154-179(0.52)
gnl UG Hs#S3439061	1.1	2	1371-1396(0.62) 1785-1809(1.10)
gnl UG Hs#S15631803	0.34	1	813-839(0.34)
gnl UG Hs#S1729547	2.4	2	1891-1916(0.21) 2192-2218(2.40)

gnl UG Hs#S2139632	5.36	8 691-719(0.49) 778-803(0.14) 1142-1167(0.43) 1411-1436(5.36) 2049-2073(2.47) 2273-2301(1.40) 2652-2680(2.40) 2730-2755(2.53)
gnl UG Hs#S4814621	1.07	3 940-965(0.49) 1502-1530(0.55) 1678-1705(1.07)
gnl UG Hs#S2140058	1.45	3 132-158(0.82) 474-499(1.45) 867-892(0.76)
gnl UG Hs#S4616406	0.53	1 47-72(0.53)
gnl UG Hs#S1728371	0.97	1 510-536(0.97)
gnl UG Hs#S1727810	3.56	5 303-328(3.56) 630-655(1.46) 686-714(1.82) 1572-1597(1.57) 1715-1743(0.81)
gnl UG Hs#S4822051	0.67	1 1059-1085(0.67)
gnl UG Hs#S2139629	4.04	1 570-595(4.04)
gnl UG Hs#S15638749	2	4 97-122(1.50) 485-510(1.52) 692-720(2.00) 725-750(1.89)
gnl UG Hs#S15643310	1.58	2 352-380(0.88) 2974-3000(1.58)
gnl UG Hs#S1726670	0.01	1 674-700(0.01)
gnl UG Hs#S2293681	3.3	1 598-623(3.30)
gnl UG Hs#S4840397	0.29	1 422-448(0.29)
gnl UG Hs#S4553540	2.04	2 30-55(1.40) 435-460(2.04)
gnl UG Hs#S4828882	1.97	3 697-722(1.97) 774-799(0.72) 1141-1167(0.07)
gnl UG Hs#S1726659	1.72	2 595-619(1.72) 639-667(0.50)
gnl UG Hs#S3940063	0.11	1 95-118(0.11)
gnl UG Hs#S2139770	0.98	1 254-282(0.98)
gnl UG Hs#S11046557	0.13	1 113-137(0.13)
gnl UG Hs#S2293733	3.52	2 232-257(3.52) 305-331(0.58)
gnl UG Hs#S1726854	2.26	1 206-231(2.26)
gnl UG Hs#S3619160	2.89	4 290-316(2.89) 502-528(1.69) 735-762(1.03) 827-852(0.30)
gnl UG Hs#S4811365	0.68	1 887-912(0.68)
gnl UG Hs#S3993520	2.4	2 313-339(0.36) 451-476(2.40)
gnl UG Hs#S3219754	0.43	1 118-143(0.43)
gnl UG Hs#S3905487	2	2 125-150(2.00) 256-281(1.23)
gnl UG Hs#S1730725	2.43	1 630-656(2.43)
gnl UG Hs#S10831652	1.13	1 901-926(1.13)
gnl UG Hs#S4554440	1.33	4 82-107(1.16) 597-622(0.81) 1328-1354(0.15) 1596-1624(1.33)
gnl UG Hs#S4619825	1.3	2 658-684(0.79) 1213-1241(1.30)
gnl UG Hs#S4808753	3.94	4 63-89(1.94) 1832-1857(3.94) 1937-1965(1.48) 1970-1996(1.16)
gnl UG Hs#S3438734	6.23	1 285-311(6.23)
gnl UG Hs#S4807881	2.08	1 256-282(2.08)
gnl UG Hs#S4824725	0.55	1 497-523(0.55)
gnl UG Hs#S4046145	0.2	1 1057-1084(0.20)
gnl UG Hs#S4810792	3.62	7 412-440(0.81) 702-728(1.58) 1410-1438(0.81) 1580-1606(3.62) 2280-2308(0.04) 2439-2464(1.34) 2524-2549(0.33)
gnl UG Hs#S1729933	1.43	1 535-560(1.43)
gnl UG Hs#S2293238	1.52	2 149-175(1.52) 281-304(0.30)
gnl UG Hs#S3438949	1.5	1 136-161(1.50)
gnl UG Hs#S1729520	0.4	1 283-309(0.40)
gnl UG Hs#S3438354	0.23	2 818-845(0.17) 1019-1043(0.23)
gnl UG Hs#S1732045	2.05	2 458-486(0.97) 771-796(2.05)
gnl UG Hs#S1731951	5.91	6 688-714(1.40) 801-831(2.20) 946-972(0.23) 1026-1051(5.91) 1075-1101(2.30) 2160-2187(0.40)
gnl UG Hs#S2293528	4.07	4 337-362(0.17) 575-602(4.07) 703-728(0.04) 894-919(0.87)
gnl UG Hs#S2139157	0.85	1 132-159(0.85)
gnl UG Hs#S4819878	3.01	4 329-355(0.15) 1069-1095(1.40) 1381-1406(0.40) 4169-4194(3.01)
gnl UG Hs#S4807684	4.52	4 1075-1101(4.52) 1737-1763(1.05) 1799-1824(1.98) 1860-1886(0.82)
gnl UG Hs#S3439927	3.89	5 63-91(0.85) 226-251(3.89) 292-317(2.39) 355-380(2.62) 325-350(0.07)
gnl UG Hs#S3603744	0.99	2 701-726(0.72) 935-961(0.99)
gnl UG Hs#S1730174	1.63	2 764-789(1.63) 1111-1137(1.06)
gnl UG Hs#S3438571	3.53	4 185-210(2.68) 1550-1575(2.04) 2057-2082(3.53) 2699-2723(0.47)
gnl UG Hs#S2293624	2.98	2 227-254(0.14) 401-426(2.98)
gnl UG Hs#S14802630	2.13	2 1552-1577(2.13) 1587-1614(0.76)
gnl UG Hs#S3219103	8.83	3 375-401(0.47) 416-441(0.04) 548-574(8.83)

gnl UG Hs#S1731996	1.4	3 235-261(0.94) 3854-3877(0.89) 3892-3920(1.40)
gnl UG Hs#S1732234	2.91	2 992-1017(0.20) 1514-1540(2.91)
gnl UG Hs#S4807843	0.5	1 466-491(0.50)
gnl UG Hs#S1726344	3.91	5 669-695(3.91) 701-727(2.86) 1054-1080(0.13) 1232-1258(1.76) 1278-1303(0.18)
gnl UG Hs#S3218982	0.14	1 49-74(0.14)
gnl UG Hs#S2139622	3.2	4 167-195(2.33) 2033-2058(3.20) 2555-2583(0.49) 3938-3963(1.91)
gnl UG Hs#S3603187	0.5	1 124-150(0.50)
gnl UG Hs#S1729192	0.18	1 446-471(0.18)
gnl UG Hs#S1728360	1.4	1 450-476(1.40)
gnl UG Hs#S13588635	0.32	2 677-702(0.20) 825-853(0.32)
gnl UG Hs#S4807616	0.2	1 656-679(0.20)
gnl UG Hs#S3355481	0.26	1 166-191(0.26)
gnl UG Hs#S14272723	2.77	4 6-31(0.26) 326-352(2.77) 1386-1412(2.24) 1697-1722(0.84)
gnl UG Hs#S4553118	3.85	5 1964-1989(1.55) 2038-2066(0.98) 2153-2177(2.69) 2477-2502(3.85) 2513-2538(1.72)
gnl UG Hs#S15639611	5.81	1 182-210(5.81)
gnl UG Hs#S2293396	2.63	5 153-178(1.39) 255-280(2.63) 791-818(0.03) 1970-1997(2.21) 3297-3322(0.23)
gnl UG Hs#S3603843	2.15	4 619-643(0.39) 649-672(0.21) 1620-1645(1.57) 1942-1967(2.15)
gnl UG Hs#S2293948	1.46	1 1662-1688(1.46)
gnl UG Hs#S3219938	3.49	1 620-646(3.49)
gnl UG Hs#S1727049	5.53	1 234-262(5.53)
gnl UG Hs#S4807969	3.08	2 95-121(0.27) 239-264(3.08)
gnl UG Hs#S11590846	1.58	3 414-440(0.50) 448-474(0.69) 637-661(1.58)
gnl UG Hs#S4807576	2.01	2 516-544(0.91) 1215-1243(2.01)
gnl UG Hs#S1726694	0.17	1 95-120(0.17)
gnl UG Hs#S1732228	0.82	1 3-28(0.82)
gnl UG Hs#S15642158	3.3	3 25-50(0.30) 268-296(3.30) 348-373(1.90)
gnl UG Hs#S1727825	1.15	1 331-356(1.15)
gnl UG Hs#S3220071	0.55	1 143-168(0.55)
gnl UG Hs#S1731457	1.17	1 421-447(1.17)
gnl UG Hs#S4554589	2.68	1 735-761(2.68)
gnl UG Hs#S4285318	0.76	1 1946-1971(0.76)
gnl UG Hs#S472705	3.53	3 697-723(0.24) 1911-1936(1.72) 2519-2544(3.53)
gnl UG Hs#S1730149	1.79	5 66-91(1.19) 389-416(0.14) 892-918(1.79) 1155-1180(1.21) 1229-1254(1.13)
gnl UG Hs#S4284324	1.48	1 653-678(1.48)
gnl UG Hs#S1729517	0.23	1 89-117(0.23)
gnl UG Hs#S10832555	1.27	3 171-199(1.27) 484-510(0.08) 572-596(0.65)
gnl UG Hs#S15644378	1.98	2 114-136(1.10) 1092-1117(1.98)
gnl UG Hs#S5978603	0.49	2 194-219(0.39) 359-385(0.49)
gnl UG Hs#S15636758	3.65	7 213-238(1.30) 254-279(3.65) 482-507(3.04) 521-546(1.52) 915-941(2.04) 2023-2048(2.08) 2281-2306(1.17)
gnl UG Hs#S11046701	0.34	1 2346-2373(0.34)
gnl UG Hs#S3825996	2.68	5 311-336(0.13) 546-571(2.68) 755-778(0.04) 1629-1656(0.43) 1968-1993(0.79)
gnl UG Hs#S1973073	3.14	3 391-416(3.14) 1661-1686(0.04) 1939-1964(2.40)
gnl UG Hs#S5978674	1.26	2 1276-1301(1.26) 1482-1507(1.18)
gnl UG Hs#S1731221	1.36	3 238-264(1.36) 410-434(0.27) 511-537(0.82)
gnl UG Hs#S3355668	1.84	1 1249-1275(1.84)
gnl UG Hs#S3619253	3.56	2 377-402(3.56) 404-431(0.20)
gnl UG Hs#S15631734	2.05	2 316-341(2.05) 2103-2128(1.50)
gnl UG Hs#S1727366	0.46	3 353-378(0.46) 608-634(0.01) 643-669(0.13)
gnl UG Hs#S4807649	1.86	3 168-196(0.13) 460-485(1.25) 986-1012(1.86)
gnl UG Hs#S2140513	1.23	1 968-994(1.23)
gnl UG Hs#S1727877	8.21	3 375-401(0.47) 416-441(0.04) 548-573(8.21)
gnl UG Hs#S6091955	1.57	4 100-125(0.98) 201-226(1.57) 598-624(1.23) 1225-1253(1.08)
gnl UG Hs#S1728415	0.04	1 171-194(0.04)
gnl UG Hs#S4821666	0.88	2 204-229(0.88) 234-259(0.30)

gnl UG Hs#S4554641	2.4	2 696-722(2.40) 727-753(2.23)
gnl UG Hs#S1732366	2.56	2 54-81(0.27) 266-292(2.56)
gnl UG Hs#S2138984	2.42	1 1554-1580(2.42)
gnl UG Hs#S4621018	2.26	2 241-266(2.26) 292-320(1.27)
gnl UG Hs#S3322148	3.53	2 179-205(1.27) 217-242(3.53)
gnl UG Hs#S2140286	1.26	1 160-185(1.26)
gnl UG Hs#S14802329	1.04	1 940-965(1.04)
gnl UG Hs#S3355526	0.85	1 109-134(0.85)
gnl UG Hs#S3219039	1.3	1 341-366(1.30)
gnl UG Hs#S1727432	3.6	2 176-202(1.56) 368-393(3.60)
gnl UG Hs#S4283807	4.79	4 830-856(3.06) 1335-1361(1.40) 1650-1675(3.53) 3807-3837(4.79)
gnl UG Hs#S4828090	1.65	2 1102-1127(1.65) 1491-1516(0.69)
gnl UG Hs#S4812773	2.62	8 315-340(0.80) 419-446(0.85) 634-659(2.56) 1691-1716(0.07) 1808-1836(2.62) 1989-2015(0.23) 2629-2655(0.30) 2958-2983(0.21)
gnl UG Hs#S2140715	1.08	1 519-542(1.08)
gnl UG Hs#S4820065	0.07	1 652-679(0.07)
gnl UG Hs#S2139880	2.23	5 16-41(0.98) 94-121(0.28) 411-437(1.47) 1074-1100(0.53) 1119-1144(2.23)
gnl UG Hs#S3220021	0.53	1 1383-1409(0.53)
gnl UG Hs#S2139294	0.72	2 438-463(0.50) 1353-1378(0.72)
gnl UG Hs#S1726435	1.08	2 76-102(1.08) 151-177(0.81)
gnl UG Hs#S4831163	2.33	3 119-144(2.01) 360-387(0.16) 1474-1498(2.33)
gnl UG Hs#S1971626	4.37	5 543-568(2.55) 1000-1025(1.07) 1864-1889(4.37) 2425-2450(0.57) 2467-2492(1.82)
gnl UG Hs#S5930917	1.3	3 380-405(1.30) 750-775(0.91) 807-833(1.11)
gnl UG Hs#S3439053	0.82	1 289-319(0.82)
gnl UG Hs#S1731130	3.17	1 107-132(3.17)
gnl UG Hs#S10831498	1.06	2 138-163(0.17) 619-646(1.06)
gnl UG Hs#S1727396	2.01	8 214-240(0.27) 624-650(0.98) 590-616(0.15) 767-795(1.23) 884-912(0.15) 1020-1045(0.26) 1149-1174(0.30) 1238-1267(2.01)
gnl UG Hs#S1729654	1.04	2 354-380(0.44) 2826-2850(1.04)
gnl UG Hs#S5978653	2.13	2 395-420(2.13) 746-771(0.08)
gnl UG Hs#S3972988	3.52	8 30-58(0.49) 357-385(1.81) 696-721(1.57) 871-899(3.07) 913-941(3.52) 1249-1274(1.65) 1650-1675(2.82) 1809-1834(0.43)
gnl UG Hs#S3218902	3.82	7 148-173(3.82) 437-463(0.07) 747-776(1.83) 862-887(1.53) 888-914(0.84) 1081-1106(0.50) 1215-1241(1.30)
gnl UG Hs#S3219295	4.58	1 1530-1556(4.58)
gnl UG Hs#S4435312	1.94	1 1240-1266(1.94)
gnl UG Hs#S2139980	0.5	2 142-169(0.50) 327-355(0.49)
gnl UG Hs#S4812830	0.74	2 760-785(0.74) 833-859(0.40)
gnl UG Hs#S4827228	1.98	1 700-725(1.98)
gnl UG Hs#S1729462	0.2	1 311-336(0.20)
gnl UG Hs#S5931237	2.54	1 89-115(2.54)
gnl UG Hs#S1727610	0.07	1 553-578(0.07)
gnl UG Hs#S5978414	4.72	2 347-373(1.86) 1536-1561(4.72)
gnl UG Hs#S2139519	3.24	2 106-132(1.03) 777-802(3.24)
gnl UG Hs#S4807871	3.36	2 51-77(1.36) 480-506(3.36)
gnl UG Hs#S3438444	2.57	1 20-45(2.57)
gnl UG Hs#S5860296	0.65	1 1277-1303(0.65)
gnl UG Hs#S1726305	2.4	1 7-33(2.40)
gnl UG Hs#S4614090	3.5	3 180-206(3.50) 1299-1325(0.65) 1489-1517(0.26)
gnl UG Hs#S2294623	5.3	5 597-622(1.82) 1171-1196(0.04) 1521-1547(1.82) 1732-1757(2.69) 1797-1822(5.30)
gnl UG Hs#S1729525	1.63	2 738-764(1.27) 911-936(1.63)
gnl UG Hs#S15115711	1.99	1 56-84(1.99)
gnl UG Hs#S3602280	1.36	2 364-389(1.36) 476-501(1.11)
gnl UG Hs#S3439166	5.42	5 77-102(1.13) 970-995(5.42) 1000-1025(0.53) 1053-1081(0.75) 1097-1125(1.21)
gnl UG Hs#S4820088	2.8	9 78-104(0.68) 340-366(0.75) 467-493(1.60) 957-982(2.04) 1052-1077(0.72) 1165-1190(0.72) 1242-1267(2.80) 1489-1516(1.52) 1696-1720(1.69)
gnl UG Hs#S1732040	0.18	1 87-115(0.18)
gnl UG Hs#S3438968	2.04	5 510-535(0.40) 555-581(2.04) 903-928(1.98) 1008-1033(0.65) 1624-1649(1.50)
gnl UG Hs#S5978529	2.57	6 275-303(0.78) 991-1019(1.29) 1615-1639(2.57) 1664-1689(0.50) 2014-2046(1.07) 2204-2229(2.08)

gnl UG Hs#S1727013	2.04	2 1502-1527(2.04) 2079-2104(0.75)
gnl UG Hs#S1824464	2.62	2 154-179(1.77) 249-275(2.62)
gnl UG Hs#S5860346	0.36	1 204-230(0.36)
gnl UG Hs#S1728460	1.33	1 511-536(1.33)
gnl UG Hs#S7111007	1.5	1 897-922(1.50)
gnl UG Hs#S2139275	0.04	1 546-574(0.04)
gnl UG Hs#S4807940	4	1 59-85(4.00)
gnl UG Hs#S15638171	0.89	1 546-571(0.89)
gnl UG Hs#S3973070	1.91	3 95-121(1.30) 268-295(0.06) 563-589(1.91)
gnl UG Hs#S3355525	0.98	1 501-526(0.98)
gnl UG Hs#S4823456	1.27	1 1215-1242(1.27)
gnl UG Hs#S4807654	1.07	2 268-293(1.07) 353-378(0.68)
gnl UG Hs#S3438770	1.08	1 1697-1723(1.08)
gnl UG Hs#S1726735	0.08	1 62-85(0.08)
gnl UG Hs#S1824534	2.81	4 227-253(0.33) 590-614(0.45) 789-814(2.33) 833-861(2.81)
gnl UG Hs#S3603839	1.66	1 164-190(1.66)
gnl UG Hs#S2294576	0.08	1 100-125(0.08)
gnl UG Hs#S2293791	3.67	1 826-852(3.67)
gnl UG Hs#S1729942	4.48	2 25-53(2.25) 612-636(4.48)
gnl UG Hs#S1731896	0.07	1 2904-2931(0.07)
gnl UG Hs#S5979261	1.21	1 232-257(1.21)
gnl UG Hs#S3219983	0.96	3 463-488(0.58) 1066-1091(0.96) 1136-1161(0.40)
gnl UG Hs#S4044638	0.21	1 1008-1034(0.21)
gnl UG Hs#S1728943	0.68	2 217-245(0.66) 627-652(0.68)
gnl UG Hs#S3619208	0.33	1 456-481(0.33)
gnl UG Hs#S7113284	4.21	6 424-449(0.65) 554-579(1.85) 1048-1076(0.81) 1385-1410(4.21) 1525-1550(0.63) 1574-1599(0.72)
gnl UG Hs#S1728864	2.25	6 553-579(2.01) 1134-1160(2.25) 1206-1231(0.58) 1951-1977(1.27) 2201-2226(1.52) 2421-2450(1.27)
gnl UG Hs#S2293763	0.79	1 320-345(0.79)
gnl UG Hs#S2140628	2.89	1 378-406(2.89)
gnl UG Hs#S5931247	4.75	5 130-156(4.75) 453-478(1.80) 579-605(0.02) 1095-1121(0.98) 1140-1165(1.75)
gnl UG Hs#S1727861	1.65	1 278-304(1.65)
gnl UG Hs#S1729001	3.26	4 69-94(1.72) 366-391(3.26) 526-552(1.60) 939-962(1.72)
gnl UG Hs#S3603144	2.65	4 278-304(0.72) 316-341(1.17) 352-377(1.53) 421-449(2.65)
gnl UG Hs#S2294347	1.57	1 940-965(1.57)
gnl UG Hs#S2139626	2.98	4 1129-1152(2.98) 2222-2250(0.49) 2375-2400(0.81) 2683-2708(1.00)
gnl UG Hs#S6163292	0.91	2 120-145(0.57) 321-347(0.91)
gnl UG Hs#S1731437	3.17	3 744-769(0.65) 966-991(3.17) 1003-1030(0.36)
gnl UG Hs#S2139889	1.14	1 49-77(1.14)
gnl UG Hs#S5978804	0.65	2 1082-1109(0.03) 1692-1718(0.65)
gnl UG Hs#S2140197	3.14	1 211-237(3.14)
gnl UG Hs#S4822856	5.15	2 963-988(5.15) 2866-2890(0.40)
gnl UG Hs#S1728785	0.84	4 753-778(0.50) 996-1021(0.14) 3034-3061(0.84) 6769-6794(0.17)
gnl UG Hs#S3619564	0.46	1 142-167(0.46)
gnl UG Hs#S3219396	0.72	4 92-117(0.50) 333-358(0.30) 1837-1863(0.72) 1992-2017(0.47)
gnl UG Hs#S2139092	4.14	3 249-274(1.72) 485-511(4.14) 1377-1402(0.53)
gnl UG Hs#S1726492	3.26	1 811-836(3.26)
gnl UG Hs#S3219390	2.2	6 285-313(0.55) 666-691(2.05) 1196-1221(2.20) 1593-1616(0.04) 2004-2029(1.57) 2386-2412(0.02)
gnl UG Hs#S1731597	2.62	5 145-170(0.08) 336-364(2.62) 536-562(1.01) 713-740(0.71) 875-900(0.20)
gnl UG Hs#S5930920	2.43	1 325-350(2.43)
gnl UG Hs#S1969120	3.13	6 287-312(2.62) 1887-1912(3.13) 2714-2739(1.40) 2753-2779(2.30) 2858-2886(0.79) 2944-2969(0.62)
gnl UG Hs#S1729445	4.62	2 532-557(4.62) 692-720(0.78)
gnl UG Hs#S4631058	0.65	2 451-477(0.08) 1870-1897(0.65)
gnl UG Hs#S2293473	0.08	1 849-877(0.08)
gnl UG Hs#S2139501	2.04	5 9-35(1.48) 790-818(0.93) 1777-1803(0.04) 2002-2027(1.30) 2047-2073(2.04)

gnl UG Hs#S1728991	0.72	3	446-471(0.30) 708-734(0.72) 747-772(0.26)
gnl UG Hs#S1730047	3.04	1	82-107(3.04)
gnl UG Hs#S4807804	1.11	1	266-291(1.11)
gnl UG Hs#S4046414	1.72	2	1839-1864(0.33) 2144-2170(1.72)
gnl UG Hs#S10832341	0.72	1	671-696(0.72)
gnl UG Hs#S4618618	0.56	1	457-482(0.56)
gnl UG Hs#S3993853	0.84	1	125-149(0.84)
gnl UG Hs#S5495040	3.01	1	82-107(3.01)
gnl UG Hs#S1727999	2.04	6	75-101(2.04) 251-276(1.13) 310-336(0.14) 906-931(0.23) 1532-1557(1.40) 1710-1736(0.50)
gnl UG Hs#S5860362	3.67	1	517-543(3.67)
gnl UG Hs#S1728646	0.39	1	541-566(0.39)
gnl UG Hs#S2293223	0.4	1	696-721(0.40)
gnl UG Hs#S3689	1.28	2	275-301(0.84) 471-497(1.28)
gnl UG Hs#S1731046	1.55	5	337-362(0.13) 885-911(0.77) 943-973(1.15) 1579-1605(0.50) 1619-1643(1.55)
gnl UG Hs#S4811318	3.57	1	2579-2604(3.57)
gnl UG Hs#S2294105	4.11	3	183-208(2.57) 237-263(1.25) 271-296(4.11)
gnl UG Hs#S3438680	4.26	4	515-541(0.08) 689-714(4.20) 922-947(4.26) 1003-1027(0.99)
gnl UG Hs#S4435611	0.41	1	140-168(0.41)
gnl UG Hs#S4044956	1.63	8	704-732(0.08) 872-900(0.13) 912-937(1.63) 978-1003(1.40) 1102-1128(0.37) 1538-1563(0.30) 1570-1598(0.20) 2148-2176(0.34)
gnl UG Hs#S2139190	4	4	29-56(1.42) 206-230(4.00) 243-268(0.04) 284-309(3.50)
gnl UG Hs#S2139882	1.37	2	100-125(0.73) 492-518(1.37)
gnl UG Hs#S7111239	2.89	2	330-356(1.50) 772-797(2.89)
gnl UG Hs#S2294469	0.33	1	490-518(0.33)
gnl UG Hs#S2139441	0.26	2	122-147(0.01) 303-328(0.26)
gnl UG Hs#S1727858	0.72	1	307-332(0.72)
gnl UG Hs#S4828791	1.4	1	207-232(1.40)
gnl UG Hs#S2140201	1.53	2	985-1010(0.84) 1029-1055(1.53)
gnl UG Hs#S1728678	1.65	1	234-259(1.65)
gnl UG Hs#S1730096	0.84	3	932-955(0.24) 1530-1555(0.84) 1568-1596(0.59)
gnl UG Hs#S2293499	3.11	5	225-252(0.61) 422-450(0.23) 1088-1113(3.11) 1207-1233(0.98) 1282-1307(1.75)
gnl UG Hs#S71110657	0.18	1	982-1007(0.18)
gnl UG Hs#S10832349	0.71	1	42-70(0.71)
gnl UG Hs#S2139055	2.57	4	535-560(0.43) 943-968(0.07) 1007-1032(2.17) 1603-1628(2.57)
gnl UG Hs#S3219652	0.89	1	624-649(0.89)
gnl UG Hs#S1727128	1.72	4	497-522(1.72) 899-927(1.04) 1372-1399(0.84) 1660-1683(1.31)
gnl UG Hs#S5930965	1.72	2	170-195(1.72) 1244-1269(1.35)
gnl UG Hs#S5978395	2.57	1	314-342(2.57)
gnl UG Hs#S1732274	1.14	1	803-828(1.14)
gnl UG Hs#S4813253	3.75	5	132-158(0.23) 446-474(1.44) 591-616(3.75) 1120-1145(0.75) 1212-1239(0.10)
gnl UG Hs#S2140594	0.48	1	58-83(0.48)
gnl UG Hs#S3219599	1.14	3	1282-1308(0.60) 2141-2166(0.98) 3624-3649(1.14)
gnl UG Hs#S2139314	2.72	6	414-437(1.08) 908-936(2.23) 999-1024(1.52) 1065-1090(1.11) 1385-1413(0.98) 1575-1601(2.72)
gnl UG Hs#S2138760	1.52	4	158-183(0.87) 490-517(1.52) 536-563(0.13) 658-686(1.38)
gnl UG Hs#S1732175	1.68	1	1372-1397(1.68)
gnl UG Hs#S1729090	3.46	4	1347-1372(2.07) 1932-1960(2.71) 3521-3546(3.46) 4083-4108(1.68)
gnl UG Hs#S1728928	1.08	3	1326-1351(0.48) 1857-1885(1.02) 2634-2659(1.08)
gnl UG Hs#S1730816	2.46	1	106-131(2.46)
gnl UG Hs#S2294533	1.44	4	316-342(1.44) 414-440(0.53) 1402-1428(0.40) 1804-1829(0.94)
gnl UG Hs#S15640250	0.43	1	618-643(0.43)
gnl UG Hs#S3542621	0.04	1	169-194(0.04)
gnl UG Hs#S1728671	2.07	2	300-325(1.40) 422-447(2.07)
gnl UG Hs#S2139782	1.98	2	717-742(1.98) 833-861(1.81)
gnl UG Hs#S3438727	0.49	1	557-582(0.49)
gnl UG Hs#S3438515	1.57	5	1064-1090(1.57) 1120-1145(1.15) 1177-1207(0.30) 1240-1264(1.56) 1612-1637(0.17)

gnl UG Hs#S3220033	4.08	6 35-61(4.08) 305-331(0.40) 359-388(0.94) 627-653(3.04) 1032-1057(0.57) 1566-1591(2.82)
gnl UG Hs#S2139603	1.11	4 446-474(0.04) 524-549(0.24) 565-591(1.11) 810-835(0.17)
gnl UG Hs#S1730553	1.17	1 72-97(1.17)
gnl UG Hs#S2140472	1.75	1 337-362(1.75)
gnl UG Hs#S15631457	1.3	3 693-718(1.30) 739-766(0.36) 1451-1476(0.14)
gnl UG Hs#S1728883	0.97	1 149-174(0.97)
gnl UG Hs#S1728694	2.89	4 755-778(2.31) 908-935(0.33) 1005-1030(1.17) 1703-1728(2.89)
gnl UG Hs#S5930958	3.72	11 12-37(0.58) 278-303(2.30) 439-464(1.00) 468-495(0.02) 517-542(0.33) 544-569(1.56) 1155-1180(0.75) 1201-1227(0.27) 1283-1308(1.72) 1912-1937(3.72) 2010-2035(3.08)
gnl UG Hs#S4808302	2.89	1 1278-1303(2.89)
gnl UG Hs#S15631741	3.18	4 56-81(1.24) 268-296(1.49) 840-865(0.48) 1131-1159(3.18)
gnl UG Hs#S1727555	1.34	3 1322-1347(1.20) 1747-1775(1.23) 2314-2337(1.34)
gnl UG Hs#S1731447	1.72	2 1302-1328(1.72) 1346-1371(1.72)
gnl UG Hs#S1726355	0.67	1 109-135(0.67)
gnl UG Hs#S4811334	2.13	1 1067-1092(2.13)
gnl UG Hs#S5931075	2.58	2 278-303(2.58) 243-269(1.15)
gnl UG Hs#S4816391	1.72	6 200-228(1.40) 554-580(0.50) 593-618(0.89) 944-969(0.72) 2124-2150(1.72) 2490-2515(1.05)
gnl UG Hs#S4545910	4.11	2 187-213(1.40) 1158-1183(4.11)
gnl UG Hs#S3619111	3.46	3 576-602(1.36) 673-698(0.30) 701-726(3.46)
gnl UG Hs#S2140543	0.11	1 159-184(0.11)
gnl UG Hs#S1728603	1.41	1 231-256(1.41)
gnl UG Hs#S3219337	4.7	4 1187-1212(0.58) 2352-2379(4.70) 2447-2472(2.30) 2490-2516(0.17)
gnl UG Hs#S2293642	1.17	2 1592-1618(0.23) 2002-2030(1.17)
gnl UG Hs#S6163429	2.84	13 229-254(0.26) 927-952(0.40) 1637-1662(1.10) 2320-2346(1.62) 2595-2620(2.53) 3191-3216(2.63) 4166-4193(0.97) 4565-4590(0.97) 5139-5164(1.67) 5283-5308(0.46) 5416-5441(0.20) 5515-5540(2.84)
gnl UG Hs#S1729797	3.28	1 60-86(3.28)
gnl UG Hs#S1732145	0.43	1 1916-1941(0.43)
gnl UG Hs#S2293819	1.89	3 918-943(1.58) 1048-1074(1.89) 1273-1298(0.43)
gnl UG Hs#S3973043	1.27	3 160-185(1.14) 299-325(1.27) 2131-2157(0.69)
gnl UG Hs#S4614324	2.91	2 486-511(2.91) 1673-1698(0.72)
gnl UG Hs#S3603199	1.76	4 1181-1206(1.72) 1377-1404(0.07) 1640-1666(1.76) 1767-1795(0.30)
gnl UG Hs#S3803678	1.53	10 65-91(0.07) 157-182(0.50) 963-988(0.53) 1962-1988(0.71) 2860-2885(0.82) 2930-2956(0.69) 3188-3213(1.53) 3854-3882(0.35) 3943-3969(1.50) 4240-4265(0.94)
gnl UG Hs#S10832008	2.4	1 68-96(2.40)
gnl UG Hs#S1729116	0.13	1 579-604(0.13)
gnl UG Hs#S4435607	0.66	1 403-428(0.66)
gnl UG Hs#S2138805	0.62	2 67-92(0.23) 127-153(0.62)
gnl UG Hs#S1729616	3.26	4 14-39(3.26) 761-789(2.23) 850-876(0.40) 1130-1158(0.30)
gnl UG Hs#S3322123	4.36	5 148-174(4.36) 242-268(0.23) 450-476(1.23) 702-728(0.84) 954-980(0.14)
gnl UG Hs#S3601865	2.68	6 285-312(0.94) 355-383(1.03) 479-506(0.23) 548-574(2.68) 678-703(0.05) 827-850(0.79)
gnl UG Hs#S3219386	0.16	1 109-134(0.16)
gnl UG Hs#S15642344	0.24	1 1164-1190(0.24)
gnl UG Hs#S5979255	1.5	1 700-728(1.50)
gnl UG Hs#S15638249	0.52	1 580-605(0.52)
gnl UG Hs#S1731110	2.36	3 42-67(0.62) 948-973(0.04) 1191-1216(2.36)
gnl UG Hs#S15640915	0.72	3 139-164(0.72) 200-223(0.21) 781-806(0.50)
gnl UG Hs#S4631275	2.81	5 67-95(2.81) 437-463(2.56) 793-819(0.50) 1024-1049(0.75) 1413-1439(1.03)
gnl UG Hs#S5931253	1.71	1 736-762(1.71)
gnl UG Hs#S14272936	2.82	6 19-44(0.04) 70-95(0.76) 475-503(1.42) 648-673(2.82) 713-739(1.76) 805-830(1.04)
gnl UG Hs#S2293361	3.08	3 3-27(0.29) 462-489(0.43) 911-937(3.08)
gnl UG Hs#S2140621	4.5	4 1380-1405(4.50) 1440-1466(0.04) 2946-2974(1.48) 3736-3762(2.43)
gnl UG Hs#S3438928	0.16	1 53-78(0.16)
gnl UG Hs#S2139947	2.76	1 248-274(2.76)
gnl UG Hs#S2139103	0.91	1 12-38(0.91)
gnl UG Hs#S1726551	1.5	2 92-118(1.50) 125-150(0.72)
gnl UG Hs#S4623360	3.29	11 222-250(0.23) 282-305(0.42) 464-489(3.07) 617-642(0.84) 825-849(0.32) 1058-1083(3.29) 1519-1547(0.49) 1752-1780(1.97) 2096-2123(1.56) 2180-2206(1.34) 2649-2675(0.50)
gnl UG Hs#S1726815	0.92	3 164-191(0.78) 292-318(0.92) 534-561(0.59)

gnl UG Hs#S4553703	1.59	1 1216-1242(1.59)
gnl UG Hs#S2139987	6.11	5 650-675(5.21) 909-936(1.88) 948-973(0.91) 1091-1117(1.04) 1122-1147(6.11)
gnl UG Hs#S1726768	4.49	8 161-184(2.20) 237-262(2.01) 722-749(0.62) 934-959(0.39) 973-999(2.08) 1166-1191(4.14) 1229-1254(4.49) 2185-2210(1.30)
gnl UG Hs#S11046704	1.55	3 95-123(1.55) 735-760(0.91) 844-869(0.49)
gnl UG Hs#S4807559	1.78	2 216-241(0.84) 868-895(1.78)
gnl UG Hs#S1728774	0.46	1 423-448(0.46)
gnl UG Hs#S1730935	4.3	1 1573-1598(4.30)
gnl UG Hs#S3601540	1.76	1 81-106(1.76)
gnl UG Hs#S3438826	0.61	1 93-117(0.61)
gnl UG Hs#S3438957	0.08	1 377-403(0.08)
gnl UG Hs#S2293437	1.01	1 205-230(1.01)
gnl UG Hs#S1730721	1.97	1 589-614(1.97)
gnl UG Hs#S1728769	1.23	2 280-305(0.82) 312-340(1.23)
gnl UG Hs#S1824444	0.53	2 569-594(0.53) 1150-1175(0.07)
gnl UG Hs#S1729293	0.29	1 185-212(0.29)
gnl UG Hs#S1727715	1.4	1 78-103(1.40)
gnl UG Hs#S5978491	1.33	8 9-34(0.30) 215-240(0.94) 364-389(1.24) 661-684(0.54) 814-840(0.69) 1582-1610(1.33) 2167-2192(0.62) 2395-2422(0.24)
gnl UG Hs#S472694	2.23	8 165-190(2.23) 355-383(2.13) 1160-1188(0.30) 1276-1301(0.30) 1638-1663(1.37) 1705-1731(2.23) 2081-2107(1.40) 2731-2756(1.75)
gnl UG Hs#S2139219	0.55	3 905-929(0.55) 1083-1105(0.01) 1237-1265(0.42)
gnl UG Hs#S5978563	3.56	3 548-573(3.56) 1476-1501(0.17) 1664-1690(0.88)
gnl UG Hs#S1731001	1.66	3 514-544(1.66) 1126-1152(1.08) 1371-1396(0.13)
gnl UG Hs#S2293247	0.56	1 394-419(0.56)
gnl UG Hs#S1732039	2.04	2 577-602(2.04) 652-680(1.97)
gnl UG Hs#S4809699	2.24	2 1829-1854(2.24) 2330-2356(0.33)
gnl UG Hs#S2139331	2.08	1 309-335(2.08)
gnl UG Hs#S4815643	1.3	1 164-192(1.30)
gnl UG Hs#S3601480	0.34	2 124-152(0.34) 181-206(0.33)
gnl UG Hs#S4808638	2.07	1 225-253(2.07)
gnl UG Hs#S5860315	6.4	2 422-448(6.40) 927-952(0.48)
gnl UG Hs#S5978559	0.97	2 683-708(0.57) 941-968(0.97)
gnl UG Hs#S7110219	1.98	1 1668-1693(1.98)
gnl UG Hs#S3219512	2.46	2 771-796(0.72) 1840-1867(2.46)
gnl UG Hs#S7112326	4.62	5 143-169(2.90) 988-1011(4.11) 1054-1081(0.69) 1271-1296(4.62) 1558-1585(0.32)
gnl UG Hs#S4616166	1.54	1 211-239(1.54)
gnl UG Hs#S3219404	1.52	2 163-191(1.52) 398-426(0.39)
gnl UG Hs#S1730340	2.11	3 990-1015(1.40) 1395-1421(0.34) 1945-1970(2.11)
gnl UG Hs#S3219416	2.94	4 237-265(1.40) 522-550(2.94) 1070-1096(1.39) 1164-1189(0.37)
gnl UG Hs#S1729537	1.26	1 638-663(1.26)
gnl UG Hs#S11154015	2.94	4 1039-1064(1.07) 1433-1458(1.40) 2239-2264(2.94) 2478-2506(0.40)
gnl UG Hs#S2294287	0.01	1 551-576(0.01)
gnl UG Hs#S1726542	0.72	1 205-230(0.72)
gnl UG Hs#S1729591	1.4	5 481-506(1.40) 511-537(0.76) 1854-1879(0.03) 2073-2099(0.07) 2150-2175(0.30)
gnl UG Hs#S1731708	0.3	1 209-236(0.30)
gnl UG Hs#S1731142	0.58	1 39-64(0.58)
gnl UG Hs#S4545900	1.3	1 48-74(1.30)
gnl UG Hs#S2139702	0.92	3 156-181(0.92) 195-220(0.36) 619-644(0.81)
gnl UG Hs#S4820264	0.98	4 307-332(0.56) 863-888(0.30) 1365-1390(0.98) 1617-1642(0.20)
gnl UG Hs#S3219499	0.62	2 51-77(0.01) 95-120(0.62)
gnl UG Hs#S2138735	1.58	1 394-419(1.58)
gnl UG Hs#S5978951	2.79	8 45-70(0.89) 433-460(0.78) 885-910(2.79) 960-985(2.72) 1277-1302(1.00) 1491-1517(1.17) 1519-1542(0.42) 2269-2298(2.37)
gnl UG Hs#S3603738	0.14	1 400-425(0.14)
gnl UG Hs#S3601567	4.5	4 106-130(2.99) 1084-1109(2.11) 2037-2063(0.36) 2100-2125(4.50)
gnl UG Hs#S1728788	0.66	1 3-30(0.66)
gnl UG Hs#S1731566	1.71	2 406-432(1.71) 966-992(0.44)

gnl UG Hs#S6693339	0.94	2	482-509(0.66) 588-613(0.94)
gnl UG Hs#S2293715	1.85	3	570-598(0.81) 776-802(0.40) 1296-1324(1.85)
gnl UG Hs#S15636107	6.04	2	56-82(0.27) 404-430(6.04)
gnl UG Hs#S1730303	1.72	1	139-164(1.72)
gnl UG Hs#S5978397	1.3	1	810-838(1.30)
gnl UG Hs#S4553743	0.43	1	295-320(0.43)
gnl UG Hs#S2293759	0.72	1	1140-1165(0.72)
gnl UG Hs#S1729252	5.82	2	152-178(0.14) 352-377(5.82)
gnl UG Hs#S3972981	1.53	1	1232-1257(1.53)
gnl UG Hs#S15633045	4.5	7	290-316(4.50) 767-793(0.21) 1304-1329(0.47) 1348-1376(0.85) 2401-2428(0.46) 2736-2763(0.97) 2890-2915(0.01)
gnl UG Hs#S1729645	0.17	2	523-550(0.05) 637-663(0.17)
gnl UG Hs#S4554431	2.27	2	463-488(2.27) 425-451(0.84)
gnl UG Hs#S2139316	0.3	1	44-69(0.30)
gnl UG Hs#S15631472	1.87	1	337-362(1.87)
gnl UG Hs#S1732096	3.79	10	125-151(0.91) 251-276(1.16) 410-436(1.13) 614-640(2.71) 969-994(1.20) 1237-1263(2.30) 1363-1388(0.75) 2073-2098(0.23) 2108-2134(1.18) 2203-2230(3.79)
gnl UG Hs#S2293692	1.65	4	36-64(0.40) 482-507(1.65) 857-883(0.62) 943-969(1.43)
gnl UG Hs#S1729047	3.49	1	930-955(3.49)
gnl UG Hs#S4046404	2.04	2	55-83(2.04) 415-441(0.36)
gnl UG Hs#S4841566	4.68	5	136-161(1.30) 232-257(2.46) 344-369(1.30) 443-468(1.03) 514-538(4.68)
gnl UG Hs#S4045829	0.53	1	65-90(0.53)
gnl UG Hs#S5930975	3.52	2	42-67(3.52) 589-614(0.20)
gnl UG Hs#S4392127	1.37	1	285-310(1.37)
gnl UG Hs#S3219014	1.14	3	44-69(0.58) 701-726(0.81) 1416-1443(1.14)
gnl UG Hs#S1731669	2.5	2	482-507(2.50) 870-895(0.04)
gnl UG Hs#S2293262	3.89	1	204-229(3.89)
gnl UG Hs#S998736	1.5	4	772-797(1.50) 1402-1427(0.61) 2033-2061(0.23) 2192-2218(0.27)
gnl UG Hs#S3219090	2.43	4	98-123(1.50) 236-261(0.40) 433-459(2.40) 463-488(2.43)
gnl UG Hs#S1731068	1.47	1	116-141(1.47)
gnl UG Hs#S1732068	3.57	4	133-158(0.67) 592-620(1.42) 960-985(3.57) 1018-1043(2.73)
gnl UG Hs#S7111875	0.98	3	270-297(0.26) 647-672(0.04) 733-759(0.98)
gnl UG Hs#S11046549	0.75	2	743-768(0.66) 1197-1223(0.75)
gnl UG Hs#S3438590	0.26	1	561-586(0.26)
gnl UG Hs#S1730503	3.43	1	39-67(3.43)
gnl UG Hs#S4046398	0.87	2	695-723(0.01) 1281-1306(0.87)
gnl UG Hs#S4435426	1.43	1	1912-1937(1.43)
gnl UG Hs#S3219147	2.59	5	76-101(2.04) 133-161(1.17) 198-223(1.00) 426-452(2.59) 773-798(1.30)
gnl UG Hs#S1727746	2.87	5	430-455(0.08) 464-489(1.56) 705-731(0.72) 910-935(0.31) 1145-1170(2.87)
gnl UG Hs#S11062794	1.18	1	123-149(1.18)
gnl UG Hs#S11046637	3.91	1	768-793(3.91)
gnl UG Hs#S1731239	0.13	1	1211-1237(0.13)
gnl UG Hs#S1728063	0.69	2	621-646(0.65) 1165-1191(0.69)
gnl UG Hs#S14802702	4.3	1	715-740(4.30)
gnl UG Hs#S3439046	3.36	1	191-217(3.36)
gnl UG Hs#S15730319	3.47	1	1571-1596(3.47)
gnl UG Hs#S1731236	0.74	1	41-66(0.74)
gnl UG Hs#S4283649	3.6	4	276-302(3.60) 533-559(0.30) 654-678(0.73) 1767-1795(1.69)
gnl UG Hs#S1732164	4.3	1	51-76(4.30)
gnl UG Hs#S4435440	0.22	1	1180-1207(0.22)
gnl UG Hs#S1728933	2.13	3	177-200(1.25) 288-313(1.46) 502-527(2.13)
gnl UG Hs#S1729264	0.3	2	1054-1077(0.04) 1151-1176(0.30)
gnl UG Hs#S2139470	2.4	2	602-627(2.40) 1133-1158(0.04)
gnl UG Hs#S2139373	1.33	2	26-49(0.20) 154-179(1.33)
gnl UG Hs#S5978504	1.52	2	122-145(1.52) 249-274(0.94)
gnl UG Hs#S2139448	1.5	1	162-188(1.50)

gnl UG Hs#S1728054	0.91	2	435-460(0.91) 1204-1227(0.55)
gnl UG Hs#S4815639	2.72	7	223-251(0.30) 334-359(1.11) 982-1007(0.39) 1039-1064(0.65) 1095-1121(2.23) 2247-2272(0.01) 2456-2481(2.72)
gnl UG Hs#S2140140	2.5	1	349-374(2.50)
gnl UG Hs#S1726679	2.94	2	253-276(0.20) 288-313(2.94)
gnl UG Hs#S1727504	4.94	1	217-242(4.94)
gnl UG Hs#S1731511	3.14	2	453-480(0.37) 494-520(3.14)
gnl UG Hs#S3619617	0.4	1	222-250(0.40)
gnl UG Hs#S2140566	0.36	1	466-491(0.36)
gnl UG Hs#S4820813	4.37	9	3-28(3.87) 304-329(1.08) 336-361(0.43) 931-954(0.39) 965-990(4.37) 1853-1881(1.44) 2375-2401(2.49) 2535-2561(0.27) 2580-2605(0.31)
gnl UG Hs#S2293231	3.08	1	534-560(3.08)
gnl UG Hs#S14273476	0.81	1	226-251(0.81)
gnl UG Hs#S3333537	2.34	1	2725-2751(2.34)
gnl UG Hs#S4616461	0.92	1	1248-1273(0.92)
gnl UG Hs#S2333214	0.08	1	370-398(0.08)
gnl UG Hs#S1726364	2.17	1	78-103(2.17)
gnl UG Hs#S1090814	1.17	1	1464-1489(1.17)
gnl UG Hs#S1726480	0.85	3	725-753(0.36) 912-938(0.76) 1140-1168(0.85)
gnl UG Hs#S1731605	0.23	1	720-745(0.23)
gnl UG Hs#S1729883	2.3	2	13-38(2.30) 449-474(0.23)
gnl UG Hs#S4808575	2.45	3	107-130(0.30) 177-203(2.45) 301-326(1.84)
gnl UG Hs#S4816305	5.49	4	144-169(3.30) 1128-1152(0.65) 1480-1505(0.94) 1980-2006(5.49)
gnl UG Hs#S2293513	1.98	1	152-177(1.98)
gnl UG Hs#S1730839	0.82	1	329-355(0.82)
gnl UG Hs#S1824403	2.14	3	158-184(2.14) 260-284(1.78) 580-608(1.72)
gnl UG Hs#S10831672	1.71	1	203-231(1.71)
gnl UG Hs#S3601478	3.04	4	178-203(2.39) 416-441(3.04) 753-781(2.40) 795-820(2.47)
gnl UG Hs#S1729223	0.5	4	37-65(0.08) 352-379(0.20) 1054-1080(0.17) 1129-1154(0.50)
gnl UG Hs#S4045766	0.79	1	497-522(0.79)
gnl UG Hs#S3322109	1.86	7	674-701(0.36) 2219-2244(1.11) 2314-2340(0.50) 2419-2445(1.86) 2635-2663(0.17) 2826-2852(0.11) 3308-3336(0.98)
gnl UG Hs#S1727079	0.4	1	194-220(0.40)
gnl UG Hs#S4807539	2.79	1	499-522(2.79)
gnl UG Hs#S3602292	0.24	1	640-665(0.24)
gnl UG Hs#S2140025	1.71	1	203-231(1.71)
gnl UG Hs#S1569536	3.04	1	1598-1623(3.04)
gnl UG Hs#S15632441	2.36	4	657-682(0.46) 804-832(0.99) 1316-1343(2.01) 1455-1480(2.36)
gnl UG Hs#S2139075	1.3	1	100-125(1.30)
gnl UG Hs#S1730795	2.57	3	695-720(0.08) 845-870(2.57) 883-907(1.36)
gnl UG Hs#S4814592	3.16	8	380-405(1.19) 652-677(0.98) 1055-1085(0.05) 1453-1481(3.16) 1713-1738(1.84) 2131-2154(1.72) 2184-2209(0.79) 2228-2253(0.78)
gnl UG Hs#S816198	0.4	1	1398-1424(0.40)
gnl UG Hs#S4830959	1.98	4	817-842(1.98) 869-894(1.40) 1274-1302(1.57) 1616-1641(1.79)
gnl UG Hs#S7111452	1.03	2	322-350(1.03) 1577-1603(0.66)
gnl UG Hs#S4046176	1.62	1	157-182(1.62)
gnl UG Hs#S1730430	0.81	1	221-249(0.81)
gnl UG Hs#S1731283	0.01	1	36-62(0.01)
gnl UG Hs#S3987795	1.66	1	325-351(1.66)
gnl UG Hs#S3972976	4.98	5	557-582(3.52) 610-636(2.08) 740-765(4.98) 802-829(3.97) 1836-1862(3.17)
gnl UG Hs#S2294336	5.2	2	1376-1404(5.20) 2559-2584(3.37)
gnl UG Hs#S3438160	0.62	1	281-305(0.62)
gnl UG Hs#S1727333	0.11	1	319-344(0.11)
gnl UG Hs#S1727360	0.72	3	929-954(0.23) 1006-1031(0.72) 1065-1091(0.36)
gnl UG Hs#S7111876	2.12	1	349-373(2.12)
gnl UG Hs#S2294510	0.95	1	187-214(0.95)
gnl UG Hs#S1726728	1.83	3	490-515(0.63) 1470-1496(0.50) 1500-1525(1.83)
gnl UG Hs#S1730060	1.86	2	602-628(0.12) 764-790(1.86)

gnl UG Hs#S4546089	0.76	2 744-769(0.17) 776-801(0.76)
gnl UG Hs#S3601562	0.91	1 656-681(0.91)
gnl UG Hs#S2138839	5.11	4 244-269(3.30) 1820-1846(2.08) 1874-1898(0.07) 2503-2528(5.11)
gnl UG Hs#S3619641	0.04	1 550-575(0.04)
gnl UG Hs#S1732076	1.07	2 1374-1400(1.07) 1468-1493(0.50)
gnl UG Hs#S1729825	4.62	2 159-184(4.62) 226-251(1.30)
gnl UG Hs#S2329489	1.01	2 343-371(1.01) 1025-1051(0.30)
gnl UG Hs#S1727952	1.48	1 689-714(1.48)
gnl UG Hs#S5931060	3.33	3 204-229(0.88) 234-259(0.30) 957-983(3.33)
gnl UG Hs#S3438745	0.54	1 210-235(0.54)
gnl UG Hs#S2294060	0.78	1 235-260(0.78)
gnl UG Hs#S1729897	4.09	1 383-408(4.09)
gnl UG Hs#S15632082	0.75	1 733-758(0.75)
gnl UG Hs#S1728262	0.76	1 601-627(0.76)
gnl UG Hs#S2293274	0.34	2 867-893(0.30) 987-1015(0.34)
gnl UG Hs#S1729029	2.08	1 32-60(2.08)
gnl UG Hs#S6159015	4.52	3 420-445(4.52) 497-521(1.25) 537-563(1.17)
gnl UG Hs#S3438735	1.59	1 192-218(1.59)
gnl UG Hs#S3602281	4.59	3 186-211(0.08) 317-342(1.23) 674-702(4.59)
gnl UG Hs#S2139569	0.92	2 1231-1258(0.13) 1436-1463(0.92)
gnl UG Hs#S10832500	4.11	2 1608-1633(2.89) 1715-1740(4.11)
gnl UG Hs#S3219982	2.26	1 1342-1368(2.26)
gnl UG Hs#S1732420	2.36	3 449-474(2.36) 1098-1124(1.44) 1270-1295(0.16)
gnl UG Hs#S4829009	3.15	2 97-122(3.15) 222-247(0.20)
gnl UG Hs#S4631282	0.5	1 713-739(0.50)
gnl UG Hs#S3973115	0.85	1 411-439(0.85)
gnl UG Hs#S2294474	1.68	1 549-575(1.68)
gnl UG Hs#S2139904	0.82	1 29-56(0.82)
gnl UG Hs#S2140090	1.47	2 230-253(1.47) 744-769(0.34)
gnl UG Hs#S5978571	0.24	2 302-327(0.24) 1342-1367(0.24)
gnl UG Hs#S3547087	5.23	2 1478-1503(5.23) 1616-1642(2.30)
gnl UG Hs#S4284540	1.95	1 323-351(1.95)
gnl UG Hs#S1727881	2.56	2 168-195(0.03) 341-367(2.56)
gnl UG Hs#S1728046	0.4	1 84-110(0.40)
gnl UG Hs#S4829089	1.63	4 311-337(0.72) 555-580(0.17) 917-945(0.23) 1106-1132(1.63)
gnl UG Hs#S1726564	2.3	3 201-226(1.19) 306-331(2.30) 381-409(1.68)
gnl UG Hs#S3880632	2.73	5 686-712(2.67) 812-840(0.81) 892-915(2.73) 1434-1459(2.26) 1732-1757(0.04)
gnl UG Hs#S4825153	3.67	9 78-106(3.36) 164-192(2.13) 401-427(0.28) 522-547(0.07) 681-706(2.36) 725-754(2.46) 1098-1126(1.35) 1684-1709(3.67) 1747-1775(0.30)
gnl UG Hs#S1730025	2.23	1 742-767(2.23)
gnl UG Hs#S4045820	1.07	2 381-406(1.07) 446-473(0.44)
gnl UG Hs#S891732	3.3	3 334-359(0.40) 704-729(1.56) 1359-1384(3.30)
gnl UG Hs#S2139586	0.91	1 729-754(0.91)
gnl UG Hs#S1728322	0.3	1 81-109(0.30)
gnl UG Hs#S1729570	0.27	1 887-912(0.27)
gnl UG Hs#S1731490	0.08	1 1219-1245(0.08)
gnl UG Hs#S1730261	1.82	1 1614-1639(1.82)
gnl UG Hs#S3333497	0.72	4 115-140(0.61) 652-677(0.66) 946-971(0.72) 1101-1127(0.17)
gnl UG Hs#S1730243	2.63	2 481-508(2.63) 617-642(0.94)
gnl UG Hs#S1728505	2.4	1 1758-1784(2.40)
gnl UG Hs#S4621518	0.75	1 564-592(0.75)
gnl UG Hs#S1727777	3.79	1 114-139(3.79)
gnl UG Hs#S3219369	1.72	4 91-116(1.61) 361-387(1.01) 1558-1584(0.08) 1668-1693(1.72)
gnl UG Hs#S7112561	3.2	2 48-76(3.20) 183-208(0.84)
gnl UG Hs#S7112028	2.69	2 410-435(0.17) 610-636(2.69)

gnl UG Hs#S4819287	1.01	3	306-331(0.57) 472-499(0.42) 844-868(1.01)
gnl UG Hs#S2649410	0.98	1	777-803(0.98)
gnl UG Hs#S1727948	0.94	1	843-868(0.94)
gnl UG Hs#S3219340	2.66	2	874-902(2.66) 1165-1190(0.34)
gnl UG Hs#S1727652	1.56	1	118-143(1.56)
gnl UG Hs#S4812109	1.72	4	780-806(0.04) 1453-1478(0.78) 1488-1513(1.72) 1556-1579(0.69)
gnl UG Hs#S3602315	2.54	1	1354-1380(2.54)
gnl UG Hs#S1727166	2.86	1	34-60(2.86)
gnl UG Hs#S2293429	0.59	2	1697-1722(0.48) 1730-1756(0.59)
gnl UG Hs#S1728588	2.88	1	105-133(2.88)
gnl UG Hs#S3439012	0.94	2	64-89(0.94) 114-139(0.40)
gnl UG Hs#S4285059	7.36	6	40-68(1.42) 235-260(0.17) 301-326(2.97) 504-532(1.81) 1340-1365(1.08) 1570-1593(7.36)
gnl UG Hs#S2139564	2.52	4	618-643(1.04) 1039-1064(1.58) 1559-1584(2.52) 1591-1616(1.43)
gnl UG Hs#S2294028	2	2	103-132(2.00) 239-264(1.91)
gnl UG Hs#S2293910	1.84	3	45-73(1.49) 176-201(1.84) 387-412(0.94)
gnl UG Hs#S1730350	1.36	2	48-73(1.36) 246-271(0.26)
gnl UG Hs#S11046568	1.46	2	932-960(0.30) 1171-1196(1.46)
gnl UG Hs#S4821428	0.66	1	980-1006(0.66)
gnl UG Hs#S7089700	2.59	3	1449-1474(2.11) 1661-1687(1.40) 1859-1884(2.59)
gnl UG Hs#S3219209	1.4	1	384-410(1.40)
gnl UG Hs#S1732022	1.36	4	522-549(1.36) 810-835(0.43) 1511-1536(1.34) 1682-1707(1.13)
gnl UG Hs#S1824355	3.67	3	270-297(1.20) 316-341(3.67) 442-468(0.34)
gnl UG Hs#S2293335	4.88	6	75-101(0.69) 111-139(4.88) 154-180(0.82) 183-210(0.72) 941-964(0.28) 1196-1222(0.07)
gnl UG Hs#S11046699	0.79	1	596-621(0.79)
gnl UG Hs#S2138967	1.58	1	119-144(1.58)
gnl UG Hs#S4553355	3.69	1	2175-2200(3.69)
gnl UG Hs#S1727214	2.62	1	70-98(2.62)
gnl UG Hs#S3547108	4.62	1	202-228(4.62)
gnl UG Hs#S3219378	1.4	3	61-86(1.13) 617-645(1.40) 661-686(0.79)
gnl UG Hs#S4816931	0.2	1	607-632(0.20)
gnl UG Hs#S2294176	0.6	1	698-724(0.60)
gnl UG Hs#S3219964	1.98	1	57-83(1.98)
gnl UG Hs#S10832601	1.6	2	892-920(0.66) 971-997(1.60)
gnl UG Hs#S1731098	0.9	1	1-28(0.90)
gnl UG Hs#S3438591	2.11	1	1250-1275(2.11)
gnl UG Hs#S1730884	2.48	1	293-318(2.48)
gnl UG Hs#S4812927	1.82	3	2269-2297(0.40) 4164-4188(0.19) 4315-4341(1.82)
gnl UG Hs#S14273064	0.72	2	1007-1032(0.72) 1174-1201(0.13)
gnl UG Hs#S1731592	1.3	3	408-435(0.47) 685-713(1.30) 1693-1718(1.23)
gnl UG Hs#S4815503	1.17	2	3660-3686(1.17) 3784-3809(0.87)
gnl UG Hs#S1728913	0.22	1	188-213(0.22)
gnl UG Hs#S1729144	2.72	1	90-116(2.72)
gnl UG Hs#S5860361	0.88	2	560-588(0.20) 598-624(0.88)
gnl UG Hs#S3619543	0.57	1	422-447(0.57)
gnl UG Hs#S7112231	2.35	2	396-420(2.35) 1162-1187(0.39)
gnl UG Hs#S3619219	5.85	3	233-258(0.36) 501-526(5.85) 557-581(1.52)
gnl UG Hs#S1729906	1.66	2	460-488(1.66) 708-734(1.13)
gnl UG Hs#S4811049	0.87	1	1986-2011(0.87)
gnl UG Hs#S2139848	1.2	2	544-571(1.20) 740-768(0.94)
gnl UG Hs#S4829704	3.11	3	384-412(0.49) 430-455(3.11) 3579-3605(1.91)
gnl UG Hs#S5931246	0.23	1	648-673(0.23)
gnl UG Hs#S4044584	1.81	1	636-664(1.81)
gnl UG Hs#S2139595	2.17	4	772-800(0.23) 1335-1360(2.17) 1518-1541(1.13) 1797-1822(1.26)
gnl UG Hs#S2293512	0.84	1	384-409(0.84)

gnl UG Hs#S1367637	2.43	6 781-807(0.20) 1041-1067(1.40) 1982-2009(2.10) 2361-2387(2.43) 2392-2417(2.11) 2611-2637(2.30)
gnl UG Hs#S5978400	3.11	1 405-430(3.11)
gnl UG Hs#S2139174	3.3	4 85-110(3.30) 221-247(1.10) 408-433(1.67) 1606-1631(2.35)
gnl UG Hs#S1728573	2.49	3 1088-1116(2.49) 1728-1757(0.69) 1883-1908(0.14)
gnl UG Hs#S2294613	1.39	1 32-57(1.39)
gnl UG Hs#S15631679	1.24	1 332-357(1.24)
gnl UG Hs#S3355555	2.53	2 54-79(1.08) 165-190(2.53)
gnl UG Hs#S2140016	2.01	1 336-362(2.01)
gnl UG Hs#S1727842	2.14	2 323-348(2.14) 1108-1133(1.94)
gnl UG Hs#S4844020	0.89	1 376-401(0.89)
gnl UG Hs#S1726212	0.39	1 586-611(0.39)
gnl UG Hs#S4807537	1.88	4 2242-2267(0.30) 2271-2296(0.08) 2325-2352(0.84) 2401-2428(1.88)
gnl UG Hs#S1732295	0.81	1 174-199(0.81)
gnl UG Hs#S1731304	1.34	4 583-608(0.13) 818-843(0.78) 920-948(1.03) 1350-1376(1.34)
gnl UG Hs#S1728716	0.73	2 504-529(0.73) 692-720(0.25)
gnl UG Hs#S2139080	1.72	1 1094-1119(1.72)
gnl UG Hs#S1729836	2.58	3 1621-1646(2.58) 1899-1925(0.62) 1976-2001(0.30)
gnl UG Hs#S1732383	0.82	1 96-119(0.82)
gnl UG Hs#S2139527	1.27	3 557-582(0.11) 1130-1156(0.72) 1179-1205(1.27)
gnl UG Hs#S1731536	3.89	1 478-503(3.89)
gnl UG Hs#S1727596	1.81	1 329-357(1.81)
gnl UG Hs#S2139455	1.16	2 878-906(1.16) 2130-2156(0.91)
gnl UG Hs#S1824485	1.32	3 217-242(0.04) 244-270(0.59) 282-307(1.32)
gnl UG Hs#S1731075	2.26	3 186-212(0.95) 216-242(0.08) 866-890(2.26)
gnl UG Hs#S2138996	1.04	1 866-891(1.04)
gnl UG Hs#S4631186	0.23	1 193-218(0.23)
gnl UG Hs#S2138712	1.39	2 958-983(1.39) 1004-1030(1.31)
gnl UG Hs#S1728271	1.69	2 227-253(1.69) 342-367(0.05)
gnl UG Hs#S10832698	3.55	2 119-144(3.07) 251-277(3.55)
gnl UG Hs#S3219003	0.5	1 275-300(0.50)
gnl UG Hs#S3803643	0.08	1 947-972(0.08)
gnl UG Hs#S2293659	0.84	2 491-515(0.84) 804-832(0.16)
gnl UG Hs#S2140631	1.46	3 410-435(1.18) 529-555(0.18) 673-698(1.46)
gnl UG Hs#S3438896	0.98	1 529-554(0.98)
gnl UG Hs#S4615846	0.53	1 256-280(0.53)
gnl UG Hs#S11590971	0.3	1 950-978(0.30)
gnl UG Hs#S1729780	0.07	1 162-185(0.07)
gnl UG Hs#S6158687	0.65	2 116-143(0.57) 175-199(0.65)
gnl UG Hs#S15632978	0.46	1 108-131(0.46)
gnl UG Hs#S6664653	8.43	5 133-161(1.17) 182-209(0.36) 414-439(2.01) 570-595(8.43) 749-777(0.49)
gnl UG Hs#S4284725	0.26	1 1229-1254(0.26)
gnl UG Hs#S4631175	1.77	3 879-902(0.75) 928-954(1.77) 1104-1129(0.10)
gnl UG Hs#S7111365	1.79	1 386-411(1.79)
gnl UG Hs#S4621036	1.08	1 3175-3201(1.08)
gnl UG Hs#S1726291	1.88	4 558-584(0.50) 757-783(1.88) 3199-3224(1.04) 4369-4394(0.08)
gnl UG Hs#S3781958	1.37	1 700-725(1.37)
gnl UG Hs#S1729991	3.04	3 857-883(1.43) 1623-1647(0.68) 1932-1958(3.04)
gnl UG Hs#S1727314	0.72	2 1039-1065(0.33) 1588-1613(0.72)
gnl UG Hs#S1726972	3.08	1 199-225(3.08)
gnl UG Hs#S4284516	0.17	1 268-293(0.17)
gnl UG Hs#S2140099	1.4	1 1928-1951(1.40)
gnl UG Hs#S4620966	3.3	1 1002-1027(3.30)
gnl UG Hs#S3219111	3.2	1 529-555(3.20)
gnl UG Hs#S4623515	0.94	3 618-644(0.17) 927-953(0.94) 1032-1059(0.23)

gnl UG Hs#S4825305	3.04	7 112-137(3.04) 905-930(12.43) 1279-1306(1.88) 2475-2503(1.44) 2735-2763(0.04) 3040-3066(2.75) 3266-3291(0.10)
gnl UG Hs#S1726769	2.49	9 3290-3316(0.08) 5465-5492(0.45) 5657-5682(1.04) 5699-5723(2.49) 6971-6998(1.84) 7108-7134(0.98) 7135-7160(0.91) 8024-8050(0.86) 8975-8999(0.41)
gnl UG Hs#S3439819	0.85	2 428-455(0.43) 594-619(0.85)
gnl UG Hs#S3219806	2.3	1 47-73(2.30)
gnl UG Hs#S1726217	2.98	2 189-215(0.01) 1199-1224(2.98)
gnl UG Hs#S1727639	3.27	1 220-246(3.27)
gnl UG Hs#S4816947	1.98	1 2477-2503(1.98)
gnl UG Hs#S3993714	0.04	1 1050-1075(0.04)
gnl UG Hs#S2138972	4.26	2 2825-2850(2.08) 3247-3272(4.26)
gnl UG Hs#S3438885	3.58	1 558-583(3.58)
gnl UG Hs#S10831566	2.08	7 3776-3801(1.67) 4643-4668(0.04) 5011-5037(1.13) 5751-5778(0.03) 5986-6009(1.04) 6046-6070(1.45) 7033-7059(2.08)
gnl UG Hs#S14272962	0.17	1 210-235(0.17)
gnl UG Hs#S3439087	0.52	2 201-227(0.50) 657-685(0.52)
gnl UG Hs#S15631435	1.24	1 941-968(1.24)
gnl UG Hs#S7113123	1.24	1 315-342(1.24)
gnl UG Hs#S3987119	4.3	5 17-45(0.03) 137-161(0.07) 1439-1465(0.54) 1651-1676(4.30) 1849-1874(0.58)
gnl UG Hs#S3881036	1.13	3 182-207(1.13) 760-786(0.30) 833-859(0.58)
gnl UG Hs#S1730331	0.94	2 650-676(0.94) 1127-1152(0.20)
gnl UG Hs#S4546207	0.62	2 18-45(0.62) 122-150(0.23)
gnl UG Hs#S1729657	0.98	3 421-447(0.16) 798-824(0.98) 1033-1058(0.65)
gnl UG Hs#S1728457	1.47	1 1432-1457(1.47)
gnl UG Hs#S15631492	3.62	1 299-324(3.62)
gnl UG Hs#S14802363	0.4	1 264-290(0.40)
gnl UG Hs#S2294368	1.56	3 100-125(0.91) 255-280(1.56) 373-398(1.49)
gnl UG Hs#S2139378	1.11	4 304-330(0.73) 539-565(0.27) 709-735(0.56) 883-908(1.11)
gnl UG Hs#S4285156	3.13	2 172-197(0.46) 214-239(3.13)
gnl UG Hs#S1731498	3.3	10 112-138(2.33) 167-192(1.41) 659-684(3.30) 953-978(0.82) 1246-1274(1.64) 1323-1348(0.23) 1865-1891(1.23) 2043-2068(1.17) 2350-2375(0.72) 2431-2459(0.75)
gnl UG Hs#S1731530	2.62	1 262-287(2.62)
gnl UG Hs#S1729379	0.77	1 296-321(0.77)
gnl UG Hs#S1732034	0.82	2 168-192(0.82) 703-728(0.62)
gnl UG Hs#S10831770	2.66	3 162-187(0.40) 235-258(0.07) 1318-1346(2.66)
gnl UG Hs#S3438870	0.66	1 381-409(0.66)
gnl UG Hs#S1731577	2.14	3 1281-1306(0.72) 2391-2417(0.53) 2989-3014(2.14)
gnl UG Hs#S2139657	0.66	6 162-190(0.09) 227-252(0.66) 1013-1039(0.33) 1598-1624(0.33) 1994-2022(0.62) 2067-2094(0.30)
gnl UG Hs#S2138799	2.61	9 14-42(1.23) 169-196(2.61) 460-485(1.57) 1367-1392(1.36) 1797-1822(0.85) 2094-2119(0.08) 2224-2249(0.13) 2707-2732(0.17) 2804-2832(1.23)
gnl UG Hs#S2140585	2.89	2 893-918(0.27) 1432-1458(2.89)
gnl UG Hs#S3219089	1.08	1 88-114(1.08)
gnl UG Hs#S3219242	3.33	2 104-129(1.40) 214-240(3.33)
gnl UG Hs#S1729355	5.11	1 700-727(5.11)
gnl UG Hs#S1728448	1.17	1 196-222(1.17)
gnl UG Hs#S4285237	2.85	2 31-56(0.33) 476-501(2.85)
gnl UG Hs#S2293482	2.17	1 814-840(2.17)
gnl UG Hs#S4817903	0.43	1 126-151(0.43)
gnl UG Hs#S15631459	2.97	3 78-103(2.97) 391-414(0.14) 433-458(0.24)
gnl UG Hs#S15633585	2.06	1 1291-1317(2.06)
gnl UG Hs#S4809641	2.5	2 16-41(2.50) 59-85(0.50)
gnl UG Hs#S1730401	1.56	2 218-244(1.56) 270-295(0.98)
gnl UG Hs#S2294500	4.58	1 259-284(4.58)
gnl UG Hs#S1726321	2.43	2 827-852(2.43) 889-917(0.81)
gnl UG Hs#S1729309	2.69	3 243-267(0.34) 1023-1048(2.03) 1233-1257(2.69)
gnl UG Hs#S2139479	3.01	6 533-562(1.26) 593-618(0.50) 727-753(1.60) 1196-1221(0.94) 1541-1567(2.10) 1728-1754(3.01)
gnl UG Hs#S1727539	0.46	2 156-182(0.45) 356-382(0.46)
gnl UG Hs#S2139412	0.72	2 94-119(0.30) 439-464(0.72)
gnl UG Hs#S4807776	2.07	4 111-136(1.65) 453-478(1.57) 546-572(1.17) 928-956(2.07)

gnl UG Hs#S3619316	0.94	1 643-668(0.94)
gnl UG Hs#S1728182	1.36	2 301-328(0.71) 746-771(1.36)
gnl UG Hs#S1729121	1.92	3 147-175(1.92) 500-528(0.33) 821-845(1.19)
gnl UG Hs#S3219574	0.44	1 675-701(0.44)
gnl UG Hs#S1730715	0.71	5 972-995(0.43) 1317-1342(0.09) 1353-1380(0.71) 1445-1472(0.66) 1487-1512(0.43)
gnl UG Hs#S3437941	2.17	1 524-549(2.17)
gnl UG Hs#S3603832	2.89	1 2489-2513(2.89)
gnl UG Hs#S1729323	1.07	2 232-257(0.63) 272-298(1.07)
gnl UG Hs#S1731172	1.4	3 535-561(0.42) 610-638(0.81) 1776-1800(1.40)
gnl UG Hs#S4392297	1.23	2 25-53(0.30) 1335-1360(1.23)
gnl UG Hs#S1728622	1.23	3 945-970(0.62) 2141-2167(1.23) 2342-2366(0.48)
gnl UG Hs#S1729122	0.81	2 191-216(0.81) 528-554(0.77)
gnl UG Hs#S1726609	4.2	1 306-331(4.20)
gnl UG Hs#S1730204	3.13	1 154-179(3.13)
gnl UG Hs#S7110779	1.53	1 825-850(1.53)
gnl UG Hs#S1730235	1.11	1 1009-1037(1.11)
gnl UG Hs#S2139512	1.83	6 697-725(1.83) 734-757(1.47) 1274-1299(0.76) 2019-2044(1.79) 2302-2330(1.71) 2979-3004(1.26)
gnl UG Hs#S2294212	6.18	1 1899-1925(6.18)
gnl UG Hs#S4810696	3.04	1 1181-1207(3.04)
gnl UG Hs#S3619172	2.34	1 452-478(2.34)
gnl UG Hs#S7112752	1.94	1 573-600(1.94)
gnl UG Hs#S4809996	0.94	1 1460-1488(0.94)
gnl UG Hs#S3219989	1.57	3 66-91(1.57) 144-169(0.49) 1301-1328(0.59)
gnl UG Hs#S2139666	1.26	2 731-756(1.26) 1052-1077(0.07)
gnl UG Hs#S1731981	0.55	1 2043-2068(0.55)
gnl UG Hs#S2138934	1.65	1 42-69(1.65)
gnl UG Hs#S10832514	1.68	3 223-247(1.68) 825-849(0.52) 1170-1198(0.04)
gnl UG Hs#S2294206	6.18	1 1899-1925(6.18)
gnl UG Hs#S4813198	1.82	5 703-727(1.03) 891-917(1.82) 1471-1497(0.44) 1562-1590(0.01) 2381-2405(0.13)
gnl UG Hs#S1728963	0.3	1 1639-1664(0.30)
gnl UG Hs#S7110806	1.83	3 80-105(0.40) 830-856(1.83) 1026-1052(0.62)
gnl UG Hs#S1824382	0.85	1 1349-1374(0.85)
gnl UG Hs#S4545927	0.08	1 327-352(0.08)
gnl UG Hs#S15638359	1.53	1 440-468(1.53)
gnl UG Hs#S5495009	1.4	1 473-501(1.40)
gnl UG Hs#S4811144	2.4	6 523-551(2.40) 1635-1660(2.36) 2032-2056(0.04) 2562-2587(2.06) 3036-3064(0.08) 3195-3223(0.30)
gnl UG Hs#S2140365	0.94	1 452-478(0.94)
gnl UG Hs#S1726450	1.27	1 515-542(1.27)
gnl UG Hs#S3619137	0.23	2 474-499(0.23) 611-636(0.20)
gnl UG Hs#S1726467	1.2	1 944-969(1.20)
gnl UG Hs#S11046623	0.6	1 173-199(0.60)
gnl UG Hs#S2294521	0.01	1 51-77(0.01)
gnl UG Hs#S3220020	0.4	2 522-547(0.40) 1901-1927(0.16)
gnl UG Hs#S2293395	2.36	3 422-447(1.89) 468-493(2.36) 519-545(1.04)
gnl UG Hs#S1728569	2.07	1 110-137(2.07)
gnl UG Hs#S3438693	0.07	1 1491-1516(0.07)
gnl UG Hs#S1728057	4.04	4 474-499(4.04) 500-525(1.21) 701-726(1.20) 740-766(3.56)
gnl UG Hs#S1090362	3.78	6 652-677(0.22) 736-761(3.78) 1783-1808(0.07) 2066-2092(1.59) 2575-2602(0.88) 3096-3122(0.40)
gnl UG Hs#S4829277	4.82	2 616-642(4.82) 976-1001(1.78)
gnl UG Hs#S15846847	1.99	2 946-973(1.99) 1280-1305(1.04)
gnl UG Hs#S2652923	2.15	4 484-510(1.30) 656-682(1.17) 683-711(0.42) 814-840(2.15)
gnl UG Hs#S1732005	1.03	2 61-89(1.03) 252-278(0.89)
gnl UG Hs#S11590920	4.26	5 156-185(3.11) 563-591(1.98) 604-629(2.52) 984-1009(1.17) 1063-1088(4.26)
gnl UG Hs#S3993887	3.36	2 70-96(3.36) 432-457(1.55)

gnl UG Hs#S3219912	1.4	1 1194-1219(1.40)
gnl UG Hs#S1728771	0.13	1 562-587(0.13)
gnl UG Hs#S1729278	4.3	1 1730-1755(4.30)
gnl UG Hs#S4828158	0.66	1 82-108(0.66)
gnl UG Hs#S11046727	1.5	1 1012-1037(1.50)
gnl UG Hs#S1731426	1.65	1 1176-1201(1.65)
gnl UG Hs#S3219930	0.46	1 839-864(0.46)
gnl UG Hs#S4545978	0.59	1 250-275(0.59)
gnl UG Hs#S1728487	2.88	1 438-467(2.88)
gnl UG Hs#S1729404	0.52	1 874-902(0.52)
gnl UG Hs#S3333458	1.86	2 229-257(0.71) 344-370(1.86)
gnl UG Hs#S2293635	2.57	2 767-793(0.93) 1032-1057(2.57)
gnl UG Hs#S4813933	1.14	1 3004-3029(1.14)
gnl UG Hs#S2140555	3.4	3 915-940(1.29) 1331-1356(1.30) 3961-3987(3.40)
gnl UG Hs#S14273179	4.3	2 362-390(2.62) 624-649(4.30)
gnl UG Hs#S3219252	3.6	5 208-233(1.08) 787-816(1.92) 828-853(0.04) 944-969(2.87) 1233-1259(3.60)
gnl UG Hs#S4554609	0.89	1 583-608(0.89)
gnl UG Hs#S4554042	3.44	2 262-287(3.44) 657-682(0.86)
gnl UG Hs#S1729098	1.72	2 487-513(0.07) 540-565(1.72)
gnl UG Hs#S1731804	3.2	5 918-946(0.49) 1036-1062(0.91) 1827-1852(3.20) 2104-2127(0.95) 2214-2239(0.72)
gnl UG Hs#S4554045	1.04	3 103-128(0.91) 674-699(0.57) 780-805(1.04)
gnl UG Hs#S2294380	4.62	6 116-141(3.14) 626-655(3.70) 892-917(0.98) 924-949(0.17) 1885-1910(4.62) 2036-2061(0.24)
gnl UG Hs#S3547119	2.2	1 1158-1185(2.20)
gnl UG Hs#S1732409	2.01	2 296-322(2.01) 477-502(0.46)
gnl UG Hs#S3987297	4.4	1 55-81(4.40)
gnl UG Hs#S1730985	0.81	3 18-44(0.23) 48-74(0.17) 585-613(0.81)
gnl UG Hs#S4631513	0.08	1 576-601(0.08)
gnl UG Hs#S10832421	1.92	5 252-278(0.52) 587-612(0.98) 1048-1073(1.92) 1336-1361(1.17) 1691-1715(1.04)
gnl UG Hs#S5518167	1.77	1 2556-2581(1.77)
gnl UG Hs#S5979244	3.43	2 249-274(1.17) 282-305(3.43)
gnl UG Hs#S3219503	0.98	1 71-96(0.98)
gnl UG Hs#S2294458	0.76	2 70-95(0.72) 163-189(0.76)
gnl UG Hs#S4821390	1.94	1 1483-1508(1.94)
gnl UG Hs#S14802253	1.08	2 58-83(0.14) 387-412(1.08)
gnl UG Hs#S1726429	1.9	4 125-150(1.90) 555-580(0.82) 592-618(1.50) 957-982(0.53)
gnl UG Hs#S7110997	1.82	1 869-895(1.82)
gnl UG Hs#S3603201	3.26	1 283-309(3.26)
gnl UG Hs#S2293694	0.5	1 259-284(0.50)
gnl UG Hs#S2140120	3.2	2 252-275(1.89) 339-366(3.20)
gnl UG Hs#S7110126	1.87	1 270-296(1.87)
gnl UG Hs#S3439064	2.17	4 320-347(0.16) 708-734(0.34) 763-787(2.17) 865-890(1.72)
gnl UG Hs#S2293386	1.7	1 1136-1161(1.70)
gnl UG Hs#S2293726	0.72	2 1037-1062(0.72) 1117-1145(0.12)
gnl UG Hs#S2139615	3.52	2 8-34(0.30) 372-398(3.52)
gnl UG Hs#S2293598	1.5	1 382-407(1.50)
gnl UG Hs#S5978589	0.03	1 166-195(0.03)
gnl UG Hs#S1731631	0.4	2 115-138(0.08) 193-219(0.40)
gnl UG Hs#S5860329	1.51	1 766-790(1.51)
gnl UG Hs#S3219836	0.78	2 264-290(0.78) 363-388(0.65)
gnl UG Hs#S998710	0.95	5 473-499(0.46) 739-764(0.16) 1954-1979(0.72) 2370-2395(0.50) 2427-2453(0.95)
gnl UG Hs#S1726582	3.62	3 1-26(3.62) 839-865(0.50) 943-968(1.81)
gnl UG Hs#S1729758	3.89	2 79-105(3.89) 197-225(2.10)
gnl UG Hs#S1824450	1.3	1 1157-1183(1.30)
gnl UG Hs#S1726752	3.3	2 15-43(3.30) 171-200(1.43)

gnl UG Hs#S1729681	1.52	2 261-289(0.43) 607-633(1.52)
gnl UG Hs#S1824274	1.57	1 218-243(1.57)
gnl UG Hs#S4615941	1.09	2 202-227(1.09) 2560-2585(0.33)
gnl UG Hs#S2138678	3.89	1 1321-1347(3.89)
gnl UG Hs#S5979197	2.98	9 225-250(0.81) 519-544(2.98) 1199-1224(1.17) 1253-1278(1.14) 1301-1329(1.88) 1449-1476(0.34) 2197-2222(2.08) 2564-2589(0.23) 3105-3131(0.18)
gnl UG Hs#S4622735	2.03	4 86-113(2.03) 2374-2399(0.43) 2867-2892(0.36) 3681-3709(0.94)
gnl UG Hs#S4813468	1.81	1 176-204(1.81)
gnl UG Hs#S4045760	4.3	5 313-338(0.43) 495-520(1.55) 1083-1108(0.55) 1346-1371(1.00) 1465-1490(4.30)
gnl UG Hs#S1727789	7.4	1 160-185(7.40)
gnl UG Hs#S11046574	0.43	2 55-81(0.20) 473-498(0.43)
gnl UG Hs#S2139504	0.39	1 2485-2510(0.39)
gnl UG Hs#S1732446	3.82	3 505-530(0.53) 1711-1737(3.82) 2039-2065(0.24)
gnl UG Hs#S3438359	0.2	2 1342-1369(0.03) 1528-1553(0.20)
gnl UG Hs#S1971516	3.04	3 1868-1894(1.26) 2744-2767(0.62) 2771-2796(3.04)
gnl UG Hs#S3219349	0.92	1 868-895(0.92)
gnl UG Hs#S15846883	1.07	1 104-132(1.07)
gnl UG Hs#S1727783	1.08	3 81-106(0.11) 118-141(1.07) 268-293(1.08)
gnl UG Hs#S3219221	1.72	2 230-257(0.07) 570-598(1.72)
gnl UG Hs#S3438831	0.18	1 262-288(0.18)
gnl UG Hs#S4553570	0.04	1 540-565(0.04)
gnl UG Hs#S3219608	0.23	1 1221-1247(0.23)
gnl UG Hs#S4825587	0.62	2 354-379(0.08) 1384-1410(0.62)
gnl UG Hs#S4830721	1.4	5 102-127(0.72) 378-406(0.59) 831-859(1.40) 1217-1242(0.99) 1591-1616(0.27)
gnl UG Hs#S4616405	0.16	1 555-583(0.16)
gnl UG Hs#S3988465	0.89	1 1029-1054(0.89)
gnl UG Hs#S3547220	4.04	1 1009-1034(4.04)
gnl UG Hs#S3438975	3.46	1 311-336(3.46)
gnl UG Hs#S1732447	1.4	1 457-485(1.40)
gnl UG Hs#S5930822	1.75	1 350-375(1.75)
gnl UG Hs#S1729085	1.75	4 552-580(1.75) 660-685(0.65) 834-859(0.72) 1148-1174(0.26)
gnl UG Hs#S2139535	0.23	1 565-591(0.23)
gnl UG Hs#S3220203	0.66	1 521-544(0.66)
gnl UG Hs#S1730130	0.6	1 1409-1435(0.60)
gnl UG Hs#S3438530	3.71	5 186-211(1.30) 260-288(3.02) 1352-1378(0.01) 1714-1742(3.71) 2275-2301(0.75)
gnl UG Hs#S5978477	0.3	2 252-278(0.30) 1511-1537(0.30)
gnl UG Hs#S4828672	1.57	1 28-53(1.57)
gnl UG Hs#S2139781	1.72	6 217-242(0.79) 284-310(0.18) 747-772(0.58) 1219-1245(1.72) 1517-1542(0.04) 1710-1736(0.33)
gnl UG Hs#S2293652	0.91	2 672-697(0.91) 862-887(0.50)
gnl UG Hs#S3803398	0.33	1 299-324(0.33)
gnl UG Hs#S3219896	2.85	3 53-76(2.85) 694-719(0.87) 864-889(1.44)
gnl UG Hs#S4623489	6.56	7 553-578(0.98) 1357-1382(0.36) 1670-1695(0.52) 1950-1975(6.56) 2067-2095(1.27) 2439-2464(1.23) 2495-2521(1.01)
gnl UG Hs#S1732010	0.56	2 195-220(0.30) 313-339(0.56)
gnl UG Hs#S2140676	4.24	7 101-124(0.43) 759-785(4.24) 1264-1289(3.40) 1320-1345(1.14) 2085-2111(0.53) 2128-2155(2.11) 2272-2297(1.98)
gnl UG Hs#S2139395	0.57	1 417-443(0.57)
gnl UG Hs#S1729531	0.58	1 184-211(0.58)
gnl UG Hs#S4554600	2.21	2 662-686(2.21) 770-797(0.39)
gnl UG Hs#S4822962	0.49	2 41-66(0.49) 118-147(0.07)
gnl UG Hs#S15631390	1.56	4 23-51(1.15) 356-382(1.56) 571-594(1.09) 639-664(0.72)
gnl UG Hs#S4826083	2.81	2 1150-1175(2.81) 1695-1720(1.30)
gnl UG Hs#S2140394	1.42	4 326-351(0.17) 353-379(0.56) 1505-1530(0.31) 1660-1688(1.42)
gnl UG Hs#S1824491	0.91	1 217-243(0.91)
gnl UG Hs#S15631989	2.15	8 97-122(2.07) 874-900(2.15) 1552-1578(0.62) 1913-1940(0.56) 3022-3048(0.39) 4204-4232(0.81) 4350-4375(0.29) 4405-4430(0.08)
gnl UG Hs#S7111704	3.75	1 1804-1830(3.75)
gnl UG Hs#S1972723	0.27	1 3127-3153(0.27)

gnl UG Hs#S2139255	0.88	2 165-191(0.88) 233-258(0.30)
gnl UG Hs#S1731294	0.46	1 404-429(0.46)
gnl UG Hs#S10831869	0.2	1 2083-2108(0.20)
gnl UG Hs#S4827264	5.18	4 563-588(0.10) 605-630(3.67) 736-761(0.08) 790-816(5.18)
gnl UG Hs#S2139265	0.59	1 83-108(0.59)
gnl UG Hs#S3619182	0.08	1 128-156(0.08)
gnl UG Hs#S3219315	0.53	1 158-183(0.53)
gnl UG Hs#S3601506	0.76	2 306-331(0.76) 954-979(0.20)
gnl UG Hs#S4617516	0.24	1 945-970(0.24)
gnl UG Hs#S14802700	2.62	4 465-491(1.62) 963-989(2.62) 1601-1629(0.11) 1934-1959(1.72)
gnl UG Hs#S4819941	3.52	2 1431-1456(0.04) 1857-1885(3.52)
gnl UG Hs#S1730158	2.82	4 189-214(0.72) 531-558(1.87) 970-996(0.64) 1562-1588(2.82)
gnl UG Hs#S3987914	1.57	1 356-381(1.57)
gnl UG Hs#S4554658	3.3	1 294-319(3.30)
gnl UG Hs#S1971523	2.58	3 366-391(2.58) 3670-3695(0.59) 3777-3805(1.98)
gnl UG Hs#S4554598	5.75	5 135-161(0.82) 198-224(0.43) 253-278(0.30) 452-479(5.75) 1171-1199(2.85)
gnl UG Hs#S3619119	1.81	5 67-94(0.17) 249-274(0.76) 355-383(0.66) 507-533(0.56) 1249-1274(1.81)
gnl UG Hs#S1730666	0.5	4 151-176(0.13) 833-858(0.24) 899-924(0.13) 1469-1494(0.50)
gnl UG Hs#S4045878	2.2	1 36-63(2.20)
gnl UG Hs#S10831785	1.13	2 46-71(1.13) 186-211(0.39)
gnl UG Hs#S3601630	0.66	2 1092-1117(0.17) 1206-1234(0.66)
gnl UG Hs#S4284983	3.11	7 270-295(1.84) 310-338(0.71) 522-547(0.91) 925-950(3.11) 1005-1030(0.46) 1054-1083(3.03) 1221-1247(0.08)
gnl UG Hs#S15640297	3.33	1 681-707(3.33)
gnl UG Hs#S2293886	3.11	4 545-570(0.11) 953-979(1.08) 1130-1155(3.11) 1300-1325(1.17)
gnl UG Hs#S4283232	1.01	2 94-120(0.61) 154-180(1.01)
gnl UG Hs#S4812893	0.81	1 346-374(0.81)
gnl UG Hs#S4812824	4.13	6 609-634(1.94) 1023-1048(4.13) 1108-1133(1.63) 1325-1351(1.27) 1377-1402(1.80) 1410-1435(0.30)
gnl UG Hs#S3438883	1.72	2 296-324(0.88) 374-397(1.72)
gnl UG Hs#S3602322	4.13	8 224-250(1.57) 1738-1763(0.65) 2060-2088(0.01) 2098-2126(4.13) 3598-3624(1.01) 4378-4406(0.40) 4831-4858(0.41) 5169-5195(0.43)
gnl UG Hs#S3333634	0.72	1 343-368(0.72)
gnl UG Hs#S1726780	1.43	1 115-140(1.43)
gnl UG Hs#S2139500	4.72	4 1960-1987(1.05) 2116-2141(3.72) 2205-2230(0.20) 2265-2290(4.72)
gnl UG Hs#S3440083	2.87	1 274-299(2.87)
gnl UG Hs#S5931210	0.79	1 589-614(0.79)
gnl UG Hs#S5495215	4.21	3 647-672(1.40) 841-867(0.45) 1523-1549(4.21)
gnl UG Hs#S1729186	1.13	1 631-655(1.13)
gnl UG Hs#S1727636	1.3	3 331-356(1.30) 427-455(0.40) 904-931(0.83)
gnl UG Hs#S1731614	1.85	2 240-268(1.85) 584-609(0.75)
gnl UG Hs#S11154024	1.98	1 1373-1398(1.98)
gnl UG Hs#S2139199	4.21	12 1489-1516(0.84) 1825-1850(2.32) 1925-1951(2.89) 2491-2516(1.58) 3033-3058(4.21) 3062-3087(2.22) 3223-3249(3.04) 3525-3550(0.07) 3652-3677(0.84) 3767-3792(0.13) 4842-4868(0.98) 5366-55
gnl UG Hs#S1731767	7.95	2 1146-1171(7.95) 2444-2470(1.08)
gnl UG Hs#S1728153	0.08	1 367-393(0.08)
gnl UG Hs#S10832272	1.4	2 68-93(0.23) 694-719(1.40)
gnl UG Hs#S1731272	0.98	1 1411-1436(0.98)
gnl UG Hs#S5860320	1.53	1 172-197(1.53)
gnl UG Hs#S3603178	2.06	3 213-241(0.08) 327-352(2.06) 463-490(0.26)
gnl UG Hs#S4435906	4.15	3 482-510(0.94) 530-555(4.15) 765-790(0.04)
gnl UG Hs#S15632434	0.62	2 115-143(0.20) 641-666(0.62)
gnl UG Hs#S1726448	2.3	2 162-187(2.30) 260-287(1.40)
gnl UG Hs#S2293322	3.01	2 1074-1102(0.17) 1645-1671(3.01)
gnl UG Hs#S1824525	0.98	3 249-275(0.47) 420-445(0.98) 1000-1025(0.91)
gnl UG Hs#S3547110	1.52	4 423-448(1.11) 451-479(1.52) 5297-5322(0.30) 5430-5455(1.50)
gnl UG Hs#S1727306	2.68	2 523-548(2.68) 979-1005(1.30)
gnl UG Hs#S1726501	1.89	1 1053-1079(1.89)

gnl UG Hs#S15638193	4.15	1 17-40(4.15)
gnl UG Hs#S1729626	0.6	2 352-378(0.36) 625-651(0.60)
gnl UG Hs#S3219481	4.86	3 592-618(2.18) 706-729(0.54) 990-1016(4.86)
gnl UG Hs#S2139540	2.08	1 919-944(2.08)
gnl UG Hs#S3219916	1.04	5 178-203(0.50) 803-829(0.57) 1434-1460(0.72) 1931-1957(0.76) 1969-1994(1.04)
gnl UG Hs#S1729051	2.33	2 275-300(2.33) 659-685(0.68)
gnl UG Hs#S4831097	3.2	2 697-725(0.88) 1111-1136(3.20)
gnl UG Hs#S4284505	0.82	1 519-544(0.82)
gnl UG Hs#S6159000	3.4	1 621-648(3.40)
gnl UG Hs#S3219565	0.26	1 512-537(0.26)
gnl UG Hs#S4553696	1.67	4 54-80(1.67) 231-256(1.13) 374-399(0.81) 418-443(0.81)
gnl UG Hs#S4546041	0.52	1 444-469(0.52)
gnl UG Hs#S1728496	1.56	2 211-236(0.30) 465-490(1.56)
gnl UG Hs#S3619161	1.88	1 831-855(1.88)
gnl UG Hs#S3603844	2.57	9 383-408(0.72) 480-506(0.23) 598-625(0.04) 858-883(1.17) 1197-1223(1.26) 1244-1269(0.40) 1417-1443(2.57) 1799-1824(0.62) 1982-2007(0.18)
gnl UG Hs#S4621267	0.27	1 2778-2806(0.27)
gnl UG Hs#S6687034	0.72	1 2067-2092(0.72)
gnl UG Hs#S1090500	0.21	1 909-934(0.21)
gnl UG Hs#S2415	0.14	1 386-411(0.14)
gnl UG Hs#S3940176	2.91	2 43-71(0.07) 444-471(2.91)
gnl UG Hs#S3619342	2.72	2 554-579(2.72) 1734-1759(0.62)
gnl UG Hs#S7111029	3.4	1 1659-1687(3.40)
gnl UG Hs#S10832062	1.72	4 640-665(0.20) 803-829(1.39) 940-965(0.11) 1267-1294(1.72)
gnl UG Hs#S5930946	0.27	1 29-55(0.27)
gnl UG Hs#S1726235	0.91	1 62-87(0.91)
gnl UG Hs#S3438879	1.91	2 887-912(0.68) 1007-1032(1.91)
gnl UG Hs#S3218912	0.02	1 539-566(0.02)
gnl UG Hs#S12743924	1.43	1 207-233(1.43)
gnl UG Hs#S3803271	0.79	1 751-776(0.79)
gnl UG Hs#S2139433	2.5	5 340-365(2.43) 667-692(0.20) 1177-1202(2.50) 1622-1650(0.71) 2308-2333(0.46)
gnl UG Hs#S14802388	1	1 1663-1688(1.00)
gnl UG Hs#S4826472	0.14	1 189-215(0.14)
gnl UG Hs#S3991578	1.12	2 1026-1051(0.07) 1759-1785(1.12)
gnl UG Hs#S1726729	1.14	1 354-379(1.14)
gnl UG Hs#S3218942	1.52	2 428-453(1.29) 2413-2436(1.52)
gnl UG Hs#S1728842	7.36	2 65-91(7.36) 124-152(1.62)
gnl UG Hs#S3219842	5.14	1 178-204(5.14)
gnl UG Hs#S3987849	2.23	7 214-239(1.87) 527-554(0.07) 682-707(0.58) 907-933(1.65) 1012-1038(2.23) 1478-1503(1.14) 1610-1638(0.88)
gnl UG Hs#S3602245	1.01	2 878-904(1.01) 999-1025(0.40)
gnl UG Hs#S4820124	4.59	4 186-211(0.08) 249-275(0.43) 310-336(2.67) 680-708(4.59)
gnl UG Hs#S4554646	1.62	2 360-386(1.62) 966-991(0.91)
gnl UG Hs#S4631234	0.1	1 762-790(0.10)
gnl UG Hs#S2138744	1.61	2 68-93(1.61) 584-613(0.03)
gnl UG Hs#S2138792	1.84	1 719-744(1.84)
gnl UG Hs#S1731050	1.73	2 344-372(0.97) 389-417(1.73)
gnl UG Hs#S4001853	0.36	1 1703-1728(0.36)
gnl UG Hs#S2139404	3.01	2 329-354(0.53) 513-539(3.01)
gnl UG Hs#S4810944	0.52	1 556-581(0.52)
gnl UG Hs#S2293974	0.42	1 98-126(0.42)
gnl UG Hs#S3438814	1.08	2 558-584(1.08) 618-643(0.81)
gnl UG Hs#S2294194	0.94	2 113-137(0.32) 1435-1460(0.94)
gnl UG Hs#S1731955	2.4	5 181-208(1.66) 383-408(1.11) 958-983(1.20) 1040-1066(2.40) 1105-1130(0.28)
gnl UG Hs#S5978558	1.44	2 450-475(0.81) 528-556(1.44)
gnl UG Hs#S4435921	0.9	1 615-639(0.90)

gnl UG Hs#S3355671	0.17	1 48-73(0.17)
gnl UG Hs#S4546314	0.52	2 1123-1149(0.30) 2335-2360(0.52)
gnl UG Hs#S5860310	2.31	4 244-271(0.17) 565-591(0.01) 643-669(0.30) 1004-1029(2.31)
gnl UG Hs#S2139484	0.37	1 1481-1509(0.37)
gnl UG Hs#S4553519	3.27	18 147-173(0.23) 302-327(1.50) 559-585(1.06) 660-687(0.61) 779-804(0.50) 869-893(3.26) 1077-1102(1.72) 1239-1265(1.40) 1705-1730(3.27) 2450-2475(0.14) 2497-2523(0.97) 2802-2827(1.72) 3537-
gnl UG Hs#S2293776	0.85	1 152-176(0.85)
gnl UG Hs#S4822891	4.26	9 106-131(0.04) 243-266(0.79) 449-474(1.82) 928-953(0.81) 1096-1121(2.07) 1692-1718(0.63) 1988-2013(4.26) 2517-2542(0.17) 3404-3430(0.14)
gnl UG Hs#S5979240	0.04	1 536-561(0.04)
gnl UG Hs#S3619586	0.59	2 143-171(0.59) 431-456(0.04)
gnl UG Hs#S1730527	5.04	2 252-277(2.58) 568-594(5.04)
gnl UG Hs#S4807646	2.13	1 541-569(2.13)
gnl UG Hs#S2654665	1.06	4 203-232(0.13) 258-285(0.82) 638-665(0.43) 1313-1341(1.06)
gnl UG Hs#S3219999	0.53	1 450-475(0.53)
gnl UG Hs#S3601518	1.46	1 43-68(1.46)
gnl UG Hs#S1729920	2.82	1 124-149(2.82)
gnl UG Hs#S3219457	0.2	1 370-395(0.20)
gnl UG Hs#S1729480	1.72	2 276-301(1.72) 329-355(0.69)
gnl UG Hs#S11062671	4.49	4 67-94(4.49) 503-531(1.30) 633-658(0.17) 839-864(1.30)
gnl UG Hs#S1824333	0.69	1 621-646(0.69)
gnl UG Hs#S3219338	0.72	1 645-670(0.72)
gnl UG Hs#S1728315	0.75	2 1616-1640(0.61) 2560-2585(0.75)
gnl UG Hs#S1730442	1.98	2 129-154(0.84) 237-262(1.98)
gnl UG Hs#S3543456	1.23	1 138-164(1.23)
gnl UG Hs#S3219638	3.14	4 594-619(1.09) 1437-1462(3.14) 2307-2334(2.15) 2532-2560(0.20)
gnl UG Hs#S1732002	0.49	1 494-522(0.49)
gnl UG Hs#S3439072	2.06	4 495-523(1.40) 1015-1041(0.12) 1421-1447(2.06) 1525-1550(0.14)
gnl UG Hs#S4823340	3.06	8 2058-2085(3.06) 2098-2124(0.66) 2686-2711(0.08) 2776-2799(3.05) 2936-2965(0.35) 3153-3178(1.01) 3531-3556(1.08) 3867-3893(0.30)
gnl UG Hs#S1727365	1.29	2 521-546(0.26) 851-878(1.29)
gnl UG Hs#S4813135	0.49	2 398-423(0.24) 629-655(0.49)
gnl UG Hs#S3619188	1.97	2 56-82(1.97) 1145-1170(0.89)
gnl UG Hs#S4807641	0.24	1 476-501(0.24)
gnl UG Hs#S3437944	1.13	2 594-619(1.13) 636-661(0.17)
gnl UG Hs#S1726999	1.17	1 27-53(1.17)
gnl UG Hs#S4616901	0.53	1 1196-1220(0.53)
gnl UG Hs#S2139708	2.3	1 109-134(2.30)
gnl UG Hs#S1727131	0.37	1 354-379(0.37)
gnl UG Hs#S1731151	0.08	1 1544-1570(0.08)
gnl UG Hs#S3219171	0.72	2 54-79(0.72) 355-380(0.15)
gnl UG Hs#S3333515	0.98	1 310-335(0.98)
gnl UG Hs#S1729769	0.25	1 140-166(0.25)
gnl UG Hs#S3219034	4.95	2 12-37(1.04) 673-698(4.95)
gnl UG Hs#S1731984	2.17	3 471-495(2.17) 556-582(1.53) 1776-1802(1.76)
gnl UG Hs#S1728865	0.5	1 1797-1822(0.50)
gnl UG Hs#S1731995	1.3	3 28-55(0.14) 568-594(1.30) 760-785(0.07)
gnl UG Hs#S1732300	1.71	2 870-898(1.71) 1314-1342(0.40)
gnl UG Hs#S2139058	2.72	6 35-60(2.36) 257-284(2.72) 726-753(0.81) 1731-1756(0.17) 2342-2367(0.58) 2791-2819(1.03)
gnl UG Hs#S1726300	4.04	1 987-1012(4.04)
gnl UG Hs#S4807707	0.9	2 305-330(0.17) 762-786(0.90)
gnl UG Hs#S3438544	6.25	1 164-190(6.25)
gnl UG Hs#S3439062	2.07	4 233-258(2.07) 724-749(0.68) 790-816(1.14) 1100-1125(0.88)
gnl UG Hs#S5978549	3.23	9 196-221(0.17) 2067-2092(0.33) 2170-2197(1.81) 2210-2236(0.72) 2257-2282(3.23) 3066-3091(1.51) 3787-3812(0.07) 4144-4169(0.19) 4945-4971(1.82)
gnl UG Hs#S2293370	2.57	1 335-360(2.57)
gnl UG Hs#S2140111	0.71	1 408-434(0.71)
gnl UG Hs#S1730831	4.62	1 470-495(4.62)

gnl UG Hs#S3619738	1.62	1 1278-1306(1.62)
gnl UG Hs#S2293641	0.56	1 490-515(0.56)
gnl UG Hs#S4814222	0.08	1 224-250(0.08)
gnl UG Hs#S2140118	0.5	1 402-428(0.50)
gnl UG Hs#S4284771	2.33	6 337-363(0.30) 413-438(1.04) 636-662(1.93) 678-706(0.23) 755-781(2.33) 876-901(0.04)
gnl UG Hs#S1729450	4.01	3 275-299(3.69) 366-392(2.08) 407-432(4.01)
gnl UG Hs#S15636431	1.13	2 260-285(1.13) 1696-1722(0.82)
gnl UG Hs#S1728866	2.72	10 82-105(1.39) 181-206(1.82) 250-275(1.50) 284-312(2.21) 1027-1052(2.72) 1783-1809(1.04) 2234-2258(0.42) 2837-2862(0.20) 2915-2940(2.00) 3183-3208(0.57)
gnl UG Hs#S1728490	2.79	2 374-400(2.79) 2594-2619(0.36)
gnl UG Hs#S3619247	1.41	2 248-273(1.41) 1003-1029(1.23)
gnl UG Hs#S15642160	1.94	1 154-180(1.94)
gnl UG Hs#S15642323	0.76	1 477-503(0.76)
gnl UG Hs#S1727450	0.03	1 1251-1277(0.03)
gnl UG Hs#S1731415	1.51	3 172-198(1.43) 365-393(1.51) 720-745(0.58)
gnl UG Hs#S4283810	0.79	1 2096-2126(0.79)
gnl UG Hs#S3322147	1.01	1 1-27(1.01)
gnl UG Hs#S1730119	0.98	3 308-334(0.65) 393-418(0.17) 912-937(0.98)
gnl UG Hs#S1727274	0.45	1 253-281(0.45)
gnl UG Hs#S3355556	3.65	1 1813-1838(3.65)
gnl UG Hs#S4807870	2.75	5 8-33(0.82) 207-232(0.78) 906-931(2.75) 1430-1456(0.97) 1487-1515(2.36)
gnl UG Hs#S2138824	4	1 83-108(4.00)
gnl UG Hs#S4553246	3.04	2 864-890(3.04) 1196-1223(1.02)
gnl UG Hs#S3438833	2.23	1 17-45(2.23)
gnl UG Hs#S4819888	1.85	2 2152-2177(1.85) 2182-2207(0.08)
gnl UG Hs#S3219062	0.57	1 673-698(0.57)
gnl UG Hs#S1731104	5.14	5 422-447(3.04) 563-588(5.14) 1194-1222(1.20) 1439-1465(1.21) 1702-1727(0.57)
gnl UG Hs#S3438994	5.2	3 548-573(5.20) 585-612(0.76) 999-1025(0.97)
gnl UG Hs#S4807830	0.26	2 145-170(0.14) 659-682(0.26)
gnl UG Hs#S1729978	0.17	1 499-525(0.17)
gnl UG Hs#S1729705	1.33	1 917-943(1.33)
gnl UG Hs#S4820767	3.21	3 675-700(1.72) 1827-1852(0.72) 2258-2283(3.21)
gnl UG Hs#S3619150	1.79	2 748-773(1.79) 1235-1260(0.17)
gnl UG Hs#S2293785	1.3	2 70-96(1.30) 121-150(0.66)
gnl UG Hs#S2139521	1.75	4 1339-1364(0.14) 1458-1486(1.75) 1587-1613(0.07) 2160-2186(0.79)
gnl UG Hs#S2138991	0.04	1 144-169(0.04)
gnl UG Hs#S1726572	1.82	2 246-271(1.82) 599-624(1.06)
gnl UG Hs#S2293232	1.08	2 162-187(0.02) 353-379(1.08)
gnl UG Hs#S1730907	0.05	1 540-565(0.05)
gnl UG Hs#S1728715	1.63	1 521-546(1.63)
gnl UG Hs#S3219564	1.47	2 349-374(1.47) 643-668(0.50)
gnl UG Hs#S4553438	2.73	3 395-422(2.73) 456-482(0.23) 1599-1624(1.56)
gnl UG Hs#S1969080	0.55	1 712-737(0.55)
gnl UG Hs#S4807648	4.4	2 680-708(4.40) 826-854(0.68)
gnl UG Hs#S3333473	5.14	1 564-590(5.14)
gnl UG Hs#S2294624	0.3	1 592-618(0.30)
gnl UG Hs#S11046664	4.82	3 776-802(0.30) 2278-2304(1.30) 2311-2337(4.82)
gnl UG Hs#S11062795	0.51	1 484-510(0.51)
gnl UG Hs#S1728145	4.5	1 1397-1423(4.50)
gnl UG Hs#S5978503	0.51	2 603-628(0.04) 678-704(0.51)
gnl UG Hs#S15636699	0.98	1 673-698(0.98)
gnl UG Hs#S4820054	2.88	2 359-384(0.40) 1038-1066(2.88)
gnl UG Hs#S1729944	3.17	1 1150-1175(3.17)
gnl UG Hs#S3438882	2.17	1 855-880(2.17)
gnl UG Hs#S7089811	1.58	1 120-145(1.58)

gnl UG Hs#S4819743	0.98	2 282-308(0.98) 553-578(0.04)
gnl UG Hs#S2140384	1.5	3 1768-1793(1.04) 2610-2636(1.50) 2664-2692(0.42)
gnl UG Hs#S1730168	1.08	3 68-93(0.21) 648-676(1.08) 1018-1044(0.69)
gnl UG Hs#S4809574	3.26	1 3248-3273(3.26)
gnl UG Hs#S14272915	1.07	1 3372-3397(1.07)
gnl UG Hs#S4545928	3.49	4 347-375(3.49) 525-552(0.17) 746-771(1.65) 940-966(0.27)
gnl UG Hs#S2293959	0.98	1 284-310(0.98)
gnl UG Hs#S3218933	0.52	1 105-129(0.52)
gnl UG Hs#S1730974	2.75	1 105-130(2.75)
gnl UG Hs#S4045885	0.08	1 767-792(0.08)
gnl UG Hs#S1969121	1.46	2 1247-1274(1.46) 2123-2151(0.23)
gnl UG Hs#S1732193	3.62	2 901-926(3.62) 940-966(0.69)
gnl UG Hs#S4819108	1.67	1 559-585(1.67)
gnl UG Hs#S1727061	0.49	1 3111-3139(0.49)
gnl UG Hs#S3438891	0.47	1 88-113(0.47)
gnl UG Hs#S2140082	2.82	4 11-39(0.66) 179-204(0.04) 562-587(1.72) 958-984(2.82)
gnl UG Hs#S11590999	0.81	1 720-745(0.81)
gnl UG Hs#S1726238	2.57	2 21-46(2.57) 709-732(0.57)
gnl UG Hs#S4812207	3.94	1 140-165(3.94)
gnl UG Hs#S2138776	2.4	2 119-143(0.05) 658-683(2.40)
gnl UG Hs#S4554649	0.82	2 81-106(0.82) 672-698(0.04)
gnl UG Hs#S4822050	1.71	1 243-270(1.71)
gnl UG Hs#S2293984	0.93	2 133-159(0.93) 275-300(0.65)
gnl UG Hs#S2293612	2.04	3 513-540(1.96) 768-794(2.04) 1038-1064(1.66)
gnl UG Hs#S2140257	4.37	3 17-43(0.84) 869-892(1.62) 1381-1406(4.37)
gnl UG Hs#S1726798	0.87	2 684-706(0.03) 787-813(0.87)
gnl UG Hs#S2293682	5.16	2 354-380(0.36) 491-516(5.16)
gnl UG Hs#S1726391	0.3	1 660-686(0.30)
gnl UG Hs#S1726936	0.07	1 620-648(0.07)
gnl UG Hs#S4807625	0.5	1 218-246(0.50)
gnl UG Hs#S3219091	3.11	1 438-463(3.11)
gnl UG Hs#S1728339	3.69	2 1042-1067(1.46) 1088-1111(3.69)
gnl UG Hs#S15644201	0.72	1 54-79(0.72)
gnl UG Hs#S2293623	0.92	1 244-271(0.92)
gnl UG Hs#S7111777	1.37	1 34-57(1.37)
gnl UG Hs#S4823523	4.9	8 113-139(1.55) 758-786(1.55) 966-991(4.90) 1391-1416(0.79) 1887-1912(0.41) 2217-2242(2.00) 2283-2309(0.01) 2357-2383(3.04)
gnl UG Hs#S1727228	0.38	1 65-90(0.38)
gnl UG Hs#S3940106	2.9	2 169-194(0.07) 879-905(2.90)
gnl UG Hs#S1727291	2.04	2 772-795(2.04) 1615-1640(0.34)
gnl UG Hs#S15638203	5.12	2 72-98(1.01) 721-747(5.12)
gnl UG Hs#S1824313	2.94	1 998-1023(2.94)
gnl UG Hs#S2649451	1.14	1 3235-3260(1.14)
gnl UG Hs#S14813043	4.94	1 102-127(4.94)
gnl UG Hs#S15644608	1.76	3 488-513(0.72) 760-786(1.76) 1515-1541(0.69)
gnl UG Hs#S1729757	0.13	1 89-114(0.13)
gnl UG Hs#S3817908	0.97	1 285-313(0.97)
gnl UG Hs#S3219160	1.91	2 1082-1107(0.48) 2126-2152(1.91)
gnl UG Hs#S3993526	0.25	2 186-212(0.24) 876-899(0.25)
gnl UG Hs#S15642933	1.81	3 882-907(1.20) 1119-1144(1.81) 1531-1559(0.59)
gnl UG Hs#S4545940	0.26	1 933-958(0.26)
gnl UG Hs#S1726760	1.3	3 892-917(0.81) 2267-2295(0.94) 2932-2955(1.30)
gnl UG Hs#S15643632	0.65	1 120-145(0.65)
gnl UG Hs#S1728187	1.76	1 227-253(1.76)
gnl UG Hs#S3438383	0.9	2 542-568(0.62) 741-769(0.90)

gnl UG Hs#S4825852	2.29	6	373-398(0.57) 604-630(1.98) 892-917(2.29) 2068-2093(0.13) 3188-3213(0.76) 3240-3266(0.69)
gnl UG Hs#S1731138	2.57	3	256-282(1.86) 300-328(0.30) 573-598(2.57)
gnl UG Hs#S3438485	1.87	1	690-715(1.87)
gnl UG Hs#S3437923	2.98	4	543-568(2.98) 581-606(1.26) 1000-1025(2.30) 1186-1210(0.77)
gnl UG Hs#S14812544	2.94	3	28-53(2.94) 477-502(0.48) 619-644(1.26)
gnl UG Hs#S3601553	3.56	4	366-391(0.08) 395-421(3.56) 439-466(0.84) 505-530(1.04)
gnl UG Hs#S2140349	1.41	1	140-165(1.41)
gnl UG Hs#S11154089	3.07	3	323-349(1.82) 714-742(0.06) 925-950(3.07)
gnl UG Hs#S2139383	1.26	5	117-142(0.04) 194-219(0.85) 777-802(0.46) 931-956(1.26) 1259-1284(0.43)
gnl UG Hs#S1727023	0.91	1	95-120(0.91)
gnl UG Hs#S3993854	2.85	1	271-296(2.85)
gnl UG Hs#S2140191	0.55	1	451-475(0.55)
gnl UG Hs#S1731786	0.68	2	127-152(0.40) 243-268(0.68)
gnl UG Hs#S3988651	1.34	1	974-999(1.34)
gnl UG Hs#S5978644	4.85	1	306-331(4.85)
gnl UG Hs#S1728030	0.64	1	228-253(0.64)
gnl UG Hs#S1726375	4.2	8	363-389(1.17) 392-419(1.17) 421-446(1.49) 796-821(0.30) 1420-1445(1.23) 1773-1798(0.14) 1814-1839(0.48) 1840-1866(4.20)
gnl UG Hs#S1729027	1.22	3	477-504(0.24) 861-886(1.22) 1406-1431(0.48)
gnl UG Hs#S1728988	4.62	6	376-402(1.72) 487-513(1.27) 567-594(1.02) 710-735(0.13) 1044-1069(4.62) 1150-1175(1.21)
gnl UG Hs#S5860335	3.08	2	398-421(0.58) 489-515(3.08)
gnl UG Hs#S4807575	3.4	4	483-508(2.72) 547-572(0.33) 575-601(0.59) 825-848(3.40)
gnl UG Hs#S3619288	1.32	2	1485-1511(0.68) 1617-1642(1.32)
gnl UG Hs#S1730380	1.41	2	35-60(0.72) 237-262(1.41)
gnl UG Hs#S2138681	0.46	1	868-893(0.46)
gnl UG Hs#S1731116	0.08	1	94-119(0.08)
gnl UG Hs#S1726716	2.81	7	132-158(0.68) 436-462(0.82) 527-553(2.81) 653-678(2.50) 754-779(0.57) 987-1015(1.15) 1136-1161(0.82)
gnl UG Hs#S3219309	1.91	1	155-181(1.91)
gnl UG Hs#S1732235	1.3	1	1071-1097(1.30)
gnl UG Hs#S4435286	1.68	2	418-444(1.68) 716-742(1.53)
gnl UG Hs#S4807926	2.2	2	1470-1498(0.00) 1502-1529(2.20)
gnl UG Hs#S2139623	1.94	3	238-263(1.17) 1213-1237(1.94) 2125-2150(1.19)
gnl UG Hs#S2138679	2.21	1	83-106(2.21)
gnl UG Hs#S10831955	0.17	1	1591-1617(0.17)
gnl UG Hs#S3601548	3.62	1	1386-1409(3.62)
gnl UG Hs#S4820394	2.14	2	608-635(2.14) 953-978(1.08)
gnl UG Hs#S3438572	2.56	2	54-83(2.56) 653-676(0.52)
gnl UG Hs#S15636963	1.3	6	624-649(0.94) 1023-1049(0.36) 2084-2109(1.30) 2433-2459(0.72) 2492-2517(1.22) 2695-2721(0.20)
gnl UG Hs#S4818318	0.5	1	795-820(0.50)
gnl UG Hs#S2294323	1.07	3	334-359(1.07) 594-622(0.40) 689-714(0.24)
gnl UG Hs#S1728803	0.34	1	319-347(0.34)
gnl UG Hs#S5978431	4.02	1	757-784(4.02)
gnl UG Hs#S1730263	0.8	1	2619-2642(0.80)
gnl UG Hs#S1727714	0.5	1	171-199(0.50)
gnl UG Hs#S2655921	0.95	2	491-519(0.08) 562-588(0.95)
gnl UG Hs#S2139360	4.1	1	273-297(4.10)
gnl UG Hs#S1731613	2.62	2	8-33(1.25) 417-443(2.62)
gnl UG Hs#S4553477	0.4	1	117-142(0.40)
gnl UG Hs#S3219366	3.3	8	153-177(0.84) 301-327(0.88) 819-845(2.58) 1106-1131(2.40) 1348-1373(3.30) 1568-1595(2.72) 1889-1914(0.07) 2343-2368(0.79)
gnl UG Hs#S1732422	1.89	4	3-29(1.89) 370-396(0.47) 772-797(0.43) 1040-1065(0.89)
gnl UG Hs#S4819949	0.08	1	219-245(0.08)
gnl UG Hs#S4553496	3.72	5	1809-1834(0.72) 1865-1890(0.72) 2352-2377(0.47) 2815-2841(3.72) 5025-5051(0.44)
gnl UG Hs#S1726625	3.3	1	272-297(3.30)
gnl UG Hs#S1730215	1.39	1	154-179(1.39)
gnl UG Hs#S11590882	0.23	1	896-924(0.23)

gnl UG Hs#S1731466	1.53	1	30-55(1.53)
gnl UG Hs#S4811423	1.53	6	163-192(0.64) 530-555(0.30) 1430-1455(1.53) 1663-1688(0.82) 1930-1955(0.72) 2267-2293(0.36)
gnl UG Hs#S4828571	0.12	1	1706-1732(0.12)
gnl UG Hs#S15638935	2.43	3	694-719(0.33) 970-995(2.43) 1497-1522(1.30)
gnl UG Hs#S15634363	0.07	1	310-338(0.07)
gnl UG Hs#S1731217	0.33	1	2334-2360(0.33)
gnl UG Hs#S2293393	0.17	1	637-662(0.17)
gnl UG Hs#S5978592	2.04	2	837-863(2.04) 1668-1693(0.78)
gnl UG Hs#S11046536	2	1	110-135(2.00)
gnl UG Hs#S4612991	1.34	2	844-869(0.24) 994-1019(1.34)
gnl UG Hs#S3601647	3.82	7	381-407(3.82) 780-805(1.24) 835-860(0.98) 956-981(0.62) 1025-1050(1.07) 997-1022(0.02) 1223-1249(0.69)
gnl UG Hs#S11062827	2.65	4	425-453(1.72) 462-490(1.71) 649-675(1.17) 847-874(2.65)
gnl UG Hs#S1971354	0.59	1	1172-1197(0.59)
gnl UG Hs#S3219056	2.61	1	164-189(2.61)
gnl UG Hs#S3602293	0.13	1	1063-1088(0.13)
gnl UG Hs#S3438934	1.91	1	316-341(1.91)
gnl UG Hs#S4614064	0.4	1	593-619(0.40)
gnl UG Hs#S7111006	4.04	3	172-197(4.04) 229-254(0.26) 326-351(2.30)
gnl UG Hs#S1728974	3.06	3	390-415(3.06) 425-452(0.61) 960-985(0.40)
gnl UG Hs#S2138965	3.69	1	1454-1479(3.69)
gnl UG Hs#S3438421	2.17	1	747-772(2.17)
gnl UG Hs#S4807615	2.15	3	217-246(1.46) 1095-1120(0.23) 1402-1425(2.15)
gnl UG Hs#S2293538	2.5	1	88-113(2.50)
gnl UG Hs#S3814700	2.3	7	127-152(0.72) 1061-1087(0.52) 1270-1300(1.30) 1350-1374(1.29) 1659-1687(2.30) 2264-2289(0.85) 2293-2321(1.66)
gnl UG Hs#S4613662	3.85	1	9-34(3.85)
gnl UG Hs#S4435547	1.91	5	225-248(0.11) 960-985(1.91) 1367-1393(0.30) 1806-1834(1.55) 2131-2156(1.21)
gnl UG Hs#S4554581	2.98	2	206-234(2.98) 826-851(1.62)
gnl UG Hs#S3219277	5.04	6	266-291(2.47) 2015-2040(2.20) 2130-2155(1.65) 2342-2368(3.62) 2378-2403(0.48) 2430-2455(5.04)
gnl UG Hs#S15644496	0.72	3	261-289(0.72) 857-885(0.36) 1354-1379(0.30)
gnl UG Hs#S1729209	2.94	2	145-173(2.94) 209-235(0.82)
gnl UG Hs#S15639566	0.98	1	833-858(0.98)
gnl UG Hs#S5978679	0.85	1	325-350(0.85)
gnl UG Hs#S1727572	2.08	2	84-110(2.08) 638-663(1.30)
gnl UG Hs#S4825636	1.03	2	1355-1380(1.03) 2355-2381(0.15)
gnl UG Hs#S1729390	3.62	1	221-246(3.62)
gnl UG Hs#S4821937	1.3	1	392-417(1.30)
gnl UG Hs#S1730995	1.04	2	333-358(0.56) 427-452(1.04)
gnl UG Hs#S10831914	0.68	1	115-139(0.68)
gnl UG Hs#S3547232	2.88	3	105-132(1.07) 314-342(2.88) 443-468(0.84)
gnl UG Hs#S1729366	3.89	1	896-921(3.89)
gnl UG Hs#S3219817	1.72	2	383-408(1.13) 574-599(1.72)
gnl UG Hs#S3814582	1.08	2	79-105(0.91) 429-454(1.08)
gnl UG Hs#S2294233	2.04	1	80-106(2.04)
gnl UG Hs#S1726669	0.75	1	80-103(0.75)
gnl UG Hs#S11046600	2.13	6	1939-1967(0.07) 2869-2894(1.26) 3016-3041(0.11) 3154-3180(0.50) 3594-3619(2.13) 3620-3645(0.72)
gnl UG Hs#S1726481	0.7	1	194-217(0.70)
gnl UG Hs#S4810430	0.84	1	184-210(0.84)
gnl UG Hs#S4807714	1.98	1	247-272(1.98)
gnl UG Hs#S1729538	0.67	2	902-930(0.23) 1826-1853(0.67)
gnl UG Hs#S3601719	5.62	2	201-227(5.62) 649-674(0.72)
gnl UG Hs#S11046691	2.07	3	27-52(0.23) 511-539(1.36) 704-729(2.07)
gnl UG Hs#S3990036	0.81	1	591-619(0.81)
gnl UG Hs#S1731002	2.75	9	56-80(0.85) 120-143(0.17) 368-393(1.89) 459-485(0.89) 545-570(0.36) 639-664(0.62) 819-844(0.52) 946-971(2.75) 1086-1112(1.18)
gnl UG Hs#S2293840	1.14	1	851-878(1.14)

gnl UG Hs#S4807824	0.86	1	311-337(0.86)
gnl UG Hs#S2140418	2.87	6	159-186(2.72) 543-568(2.87) 1031-1056(0.43) 1376-1401(0.68) 1429-1455(2.08) 1536-1564(0.23)
gnl UG Hs#S2139422	2.14	1	128-154(2.14)
gnl UG Hs#S4046073	2.04	1	754-782(2.04)
gnl UG Hs#S1732097	1.97	4	65-92(1.56) 306-331(0.62) 547-574(1.19) 576-601(1.97)
gnl UG Hs#S1730055	1.98	2	754-779(0.53) 1665-1690(1.98)
gnl UG Hs#S3220224	0.15	1	1563-1589(0.15)
gnl UG Hs#S5978952	0.79	2	1679-1704(0.79) 1740-1769(0.07)
gnl UG Hs#S2293541	0.04	1	1334-1360(0.04)
gnl UG Hs#S3439032	0.62	1	471-496(0.62)
gnl UG Hs#S1727606	1.47	2	116-141(1.47) 572-597(0.17)
gnl UG Hs#S1727802	0.36	1	304-332(0.36)
gnl UG Hs#S1732365	2.49	4	4-29(1.79) 355-380(1.79) 810-833(2.49) 873-898(0.18)
gnl UG Hs#S3438671	1.5	3	385-411(0.82) 649-675(1.50) 766-791(0.18)
gnl UG Hs#S1730182	1.82	5	214-239(1.13) 240-265(1.82) 2458-2484(0.14) 3965-3990(0.53) 5236-5261(0.75)
gnl UG Hs#S1824268	2.21	1	246-272(2.21)
gnl UG Hs#S2294465	1.53	1	1891-1916(1.53)
gnl UG Hs#S1728474	3.08	1	2808-2833(3.08)
gnl UG Hs#S1728124	1.34	2	519-545(1.30) 572-598(1.34)
gnl UG Hs#S1727174	1.01	1	181-207(1.01)
gnl UG Hs#S2140330	1.97	1	726-754(1.97)
gnl UG Hs#S998775	1.81	1	176-204(1.81)
gnl UG Hs#S15846863	2.01	2	721-748(0.10) 835-859(2.01)
gnl UG Hs#S4826145	2.3	4	163-188(1.53) 303-333(1.39) 785-810(2.30) 1576-1601(0.91)
gnl UG Hs#S3438960	0.72	1	731-758(0.72)
gnl UG Hs#S4546141	3.91	1	567-594(3.91)
gnl UG Hs#S3218896	0.91	3	192-218(0.91) 581-606(0.50) 895-920(0.62)
gnl UG Hs#S2139284	0.98	1	83-108(0.98)
gnl UG Hs#S7111716	2.07	5	53-78(0.56) 1140-1165(0.17) 1381-1406(1.53) 2246-2271(1.13) 2379-2404(2.07)
gnl UG Hs#S2139429	2.84	1	328-353(2.84)
gnl UG Hs#S2139689	1.2	1	2173-2198(1.20)
gnl UG Hs#S1971526	3.59	3	407-430(3.59) 474-499(2.31) 671-696(0.79)
gnl UG Hs#S1731755	3.52	3	43-68(2.04) 286-311(3.52) 531-556(0.33)
gnl UG Hs#S1729934	0.14	1	885-910(0.14)
gnl UG Hs#S3803608	1.36	2	104-129(1.36) 432-460(0.07)
gnl UG Hs#S2140606	3.39	4	1158-1183(0.16) 1558-1586(3.39) 1877-1902(1.79) 2161-2187(1.76)
gnl UG Hs#S4554588	1.32	3	474-499(0.23) 713-739(1.32) 829-854(0.11)
gnl UG Hs#S15634981	2.26	4	1726-1751(0.55) 2127-2153(1.23) 4321-4346(0.46) 4591-4616(2.26)
gnl UG Hs#S4811866	3.63	1	1268-1293(3.63)
gnl UG Hs#S1727445	0.13	1	1072-1097(0.13)
gnl UG Hs#S1726987	2.79	8	160-187(0.45) 413-439(1.11) 595-620(2.79) 872-900(0.30) 908-936(1.88) 1090-1118(0.23) 1174-1199(0.26) 1385-1410(1.07)
gnl UG Hs#S2293555	0.55	3	748-773(0.55) 880-908(0.42) 1151-1179(0.49)
gnl UG Hs#S2293205	0.36	1	427-452(0.36)
gnl UG Hs#S1730077	0.07	1	95-120(0.07)
gnl UG Hs#S1731519	1.17	1	1647-1672(1.17)
gnl UG Hs#S1729222	2.57	3	73-98(0.58) 351-377(0.23) 584-609(2.57)
gnl UG Hs#S4631002	3.99	3	250-276(3.99) 309-334(0.33) 1242-1269(1.45)
gnl UG Hs#S1727036	4.3	2	603-628(4.30) 635-663(0.30)
gnl UG Hs#S3988016	3.75	1	199-226(3.75)
gnl UG Hs#S4045770	0.76	1	70-95(0.76)
gnl UG Hs#S816213	1.17	2	1634-1659(1.14) 1767-1794(1.17)
gnl UG Hs#S3988007	0.94	1	95-120(0.94)
gnl UG Hs#S1824328	0.3	1	742-768(0.30)
gnl UG Hs#S11046721	2.87	1	1015-1040(2.87)

gnl UG Hs#S4807853	2.76	3 369-394(2.76) 528-553(2.56) 610-635(1.30)
gnl UG Hs#S1730314	2.76	2 627-652(0.84) 826-851(2.76)
gnl UG Hs#S1728556	5.78	5 118-146(1.61) 433-457(0.53) 868-896(1.30) 949-974(5.78) 1086-1112(1.23)
gnl UG Hs#S4825608	4.62	6 117-143(2.34) 918-943(0.14) 1015-1041(1.24) 1105-1132(0.55) 1434-1459(1.98) 1943-1968(4.62)
gnl UG Hs#S15730335	0.36	1 2670-2692(0.36)
gnl UG Hs#S1969024	3.42	3 1005-1033(0.76) 1853-1881(3.42) 2596-2622(0.07)
gnl UG Hs#S1732215	2.08	3 68-93(0.13) 507-532(0.46) 655-681(2.08)
gnl UG Hs#S2294481	4.98	5 145-170(1.65) 227-252(0.30) 451-474(0.72) 494-519(4.98) 1288-1313(1.95)
gnl UG Hs#S2140498	0.98	2 1938-1963(0.98) 2312-2337(0.79)
gnl UG Hs#S1726980	1.58	1 374-400(1.58)
gnl UG Hs#S11046636	2.5	1 203-229(2.50)
gnl UG Hs#S15638794	1.76	1 365-391(1.76)
gnl UG Hs#S1730395	1.07	6 231-256(0.26) 458-484(0.07) 529-555(0.98) 896-922(1.07) 1089-1115(0.30) 1156-1184(0.74)
gnl UG Hs#S4554432	1.3	2 558-584(1.30) 606-631(1.30)
gnl UG Hs#S4435956	0.2	2 516-541(0.08) 946-971(0.20)
gnl UG Hs#S1727487	2.43	7 962-988(1.20) 2329-2354(1.52) 2417-2442(0.41) 2517-2542(1.72) 2702-2727(2.43) 3516-3541(0.17) 3572-3597(1.45)
gnl UG Hs#S2139372	1.53	1 86-111(1.53)
gnl UG Hs#S7111205	3.47	3 72-97(1.40) 102-126(0.04) 183-208(3.47)
gnl UG Hs#S2140302	0.19	1 693-718(0.19)
gnl UG Hs#S1729823	1.98	5 175-200(1.14) 727-755(1.98) 912-937(1.79) 1665-1690(0.04) 2355-2380(0.27)
gnl UG Hs#S3219118	0.72	2 35-60(0.72) 414-439(0.30)
gnl UG Hs#S1728787	2.4	4 598-626(0.17) 628-653(0.14) 668-693(2.40) 1374-1400(0.58)
gnl UG Hs#S5930943	1.14	2 459-487(1.08) 518-543(1.14)
gnl UG Hs#S12743914	1.15	3 587-613(0.23) 1542-1569(1.15) 1596-1622(0.20)
gnl UG Hs#S15631537	4.79	8 158-183(0.30) 457-482(4.79) 647-672(4.36) 711-736(2.32) 745-773(1.62) 1014-1040(4.56) 1440-1466(3.69) 1716-1744(0.01)
gnl UG Hs#S3438912	3.3	3 211-236(3.30) 310-335(2.98) 610-636(2.56)
gnl UG Hs#S3438634	1.69	1 165-191(1.69)
gnl UG Hs#S1728950	1.32	1 299-323(1.32)
gnl UG Hs#S1728079	4.48	7 377-405(1.23) 1576-1600(0.14) 1777-1803(0.58) 1827-1852(1.36) 1929-1954(3.26) 2529-2554(4.48) 2744-2772(0.07)
gnl UG Hs#S4817604	1.4	2 289-314(1.40) 857-884(0.39)
gnl UG Hs#S3219286	1.69	1 1378-1401(1.69)
gnl UG Hs#S1729080	3.04	2 206-231(1.72) 687-713(3.04)
gnl UG Hs#S1731067	0.81	2 119-144(0.48) 168-196(0.81)
gnl UG Hs#S1726472	0.91	2 277-302(0.30) 616-641(0.91)
gnl UG Hs#S15631436	2.46	2 1879-1907(0.62) 2041-2066(2.46)
gnl UG Hs#S4824985	1.36	2 208-233(0.72) 333-355(1.36)
gnl UG Hs#S2139021	1.85	1 33-60(1.85)
gnl UG Hs#S4816867	1.5	2 73-99(0.04) 405-430(1.50)
gnl UG Hs#S4827545	0.72	2 527-552(0.72) 1711-1737(0.17)
gnl UG Hs#S3219146	3.62	2 794-819(1.46) 833-861(3.62)
gnl UG Hs#S15631478	2.94	2 394-419(0.07) 485-510(2.94)
gnl UG Hs#S1728352	1.35	1 145-173(1.35)
gnl UG Hs#S3547121	0.81	2 128-153(0.81) 355-383(0.23)
gnl UG Hs#S1728454	1.07	1 770-795(1.07)
gnl UG Hs#S1730374	2.43	2 667-693(0.89) 1129-1154(2.43)
gnl UG Hs#S3219851	4.53	1 630-655(4.53)
gnl UG Hs#S2293531	0.58	1 11-37(0.58)
gnl UG Hs#S3817883	3.13	3 760-785(3.13) 834-859(0.72) 880-906(0.49)
gnl UG Hs#S1731833	0.84	3 358-383(0.84) 397-422(0.84) 495-520(0.63)
gnl UG Hs#S4807521	0.98	2 594-619(0.97) 860-888(0.98)
gnl UG Hs#S3219855	0.16	1 214-242(0.16)
gnl UG Hs#S2139022	1.98	1 79-104(1.98)
gnl UG Hs#S1726678	1.72	4 418-443(0.97) 728-751(0.19) 1382-1409(1.40) 2085-2110(1.72)
gnl UG Hs#S1729548	3.55	1 170-196(3.55)

gnl UG Hs#S3220032	0.66	5	237-263(0.50) 983-1009(0.08) 1620-1645(0.66) 1949-1974(0.16) 1991-2016(0.58)
gnl UG Hs#S1972679	0.94	3	1153-1179(0.40) 1905-1931(0.23) 2524-2549(0.94)
gnl UG Hs#S4807531	0.88	1	264-292(0.88)
gnl UG Hs#S3438989	5.5	7	110-135(1.46) 205-231(0.07) 360-385(1.48) 450-475(5.50) 581-608(3.71) 863-888(1.39) 1062-1090(2.08)
gnl UG Hs#S3542620	0.23	1	847-873(0.23)
gnl UG Hs#S3542676	0.98	1	306-331(0.98)
gnl UG Hs#S1732381	0.97	3	853-879(0.43) 2014-2042(0.09) 2049-2074(0.97)
gnl UG Hs#S4830600	1.74	3	949-974(1.74) 1136-1161(0.72) 1984-2009(0.81)
gnl UG Hs#S14802279	0.13	1	1997-2022(0.13)
gnl UG Hs#S3218965	3.24	4	515-540(3.24) 594-619(0.68) 1063-1088(0.89) 1159-1184(0.30)
gnl UG Hs#S3355624	3.13	1	202-227(3.13)
gnl UG Hs#S15639833	0.65	1	257-282(0.65)
gnl UG Hs#S4046088	3.5	3	41-65(0.08) 390-415(3.50) 552-577(1.63)
gnl UG Hs#S3547265	4.14	2	450-475(1.40) 4257-4283(4.14)
gnl UG Hs#S15631740	0.32	1	453-478(0.32)
gnl UG Hs#S5930967	4.85	2	49-74(1.78) 333-358(4.85)
gnl UG Hs#S3619618	0.33	1	125-150(0.33)
gnl UG Hs#S1728608	0.58	1	391-418(0.58)
gnl UG Hs#S3619279	3.89	1	344-369(3.89)
gnl UG Hs#S3218883	0.98	2	317-342(0.98) 467-492(0.50)
gnl UG Hs#S2139258	0.14	1	440-465(0.14)
gnl UG Hs#S1731045	1.91	2	34-59(1.91) 457-482(0.88)
gnl UG Hs#S1728927	1.04	1	1554-1579(1.04)
gnl UG Hs#S4435612	1.89	3	8-34(1.89) 49-74(0.63) 182-207(0.89)
gnl UG Hs#S2140376	5.52	1	800-825(5.52)
gnl UG Hs#S1731712	1.37	4	1511-1537(1.15) 1599-1626(1.37) 1648-1673(0.07) 2251-2275(0.62)
gnl UG Hs#S4616424	1.04	1	997-1023(1.04)
gnl UG Hs#S3219303	2.21	3	467-492(2.21) 1124-1149(2.13) 1588-1613(1.47)
gnl UG Hs#S2140525	0.63	1	40-65(0.63)
gnl UG Hs#S1730426	1.2	3	352-377(1.20) 474-500(0.66) 622-647(0.24)
gnl UG Hs#S1728441	0.98	1	66-92(0.98)
gnl UG Hs#S3438188	0.62	1	3375-3400(0.62)
gnl UG Hs#S3438516	1.07	1	1519-1544(1.07)
gnl UG Hs#S4821945	0.17	1	829-855(0.17)
gnl UG Hs#S4813882	0.62	1	182-207(0.62)
gnl UG Hs#S4807879	0.03	1	1669-1697(0.03)
gnl UG Hs#S4829274	1.79	4	1-26(1.79) 249-274(0.58) 2433-2459(0.54) 3189-3214(0.23)
gnl UG Hs#S5699	2.29	7	253-280(1.10) 421-443(2.29) 545-571(0.17) 774-802(0.08) 930-958(0.49) 1075-1100(1.04) 1346-1371(1.57)
gnl UG Hs#S2139977	1.86	3	28-53(1.41) 348-374(1.86) 612-638(0.50)
gnl UG Hs#S1728177	0.94	2	1603-1628(0.94) 1760-1786(0.58)
gnl UG Hs#S5930895	0.56	1	834-859(0.56)
gnl UG Hs#S2294534	3.94	2	515-540(1.74) 649-674(3.94)
gnl UG Hs#S1729244	3.79	4	166-191(0.57) 416-441(1.79) 473-498(1.82) 1051-1076(3.79)
gnl UG Hs#S4826812	0.23	1	3-31(0.23)
gnl UG Hs#S3439035	0.36	2	972-998(0.19) 1023-1051(0.36)
gnl UG Hs#S1729117	0.84	2	16-42(0.84) 78-106(0.62)
gnl UG Hs#S14902415	4.25	7	98-121(0.79) 1877-1902(0.53) 2013-2038(0.14) 2249-2277(0.23) 3225-3250(4.25) 3683-3711(1.66) 4068-4094(2.91)
gnl UG Hs#S2139646	1.67	5	594-620(0.02) 656-682(1.67) 1331-1356(0.04) 1899-1924(0.40) 2000-2025(0.74)
gnl UG Hs#S6687073	0.43	1	1718-1744(0.43)
gnl UG Hs#S2329515	3.62	3	644-669(3.62) 1065-1091(1.46) 2075-2100(2.40)
gnl UG Hs#S3439069	5.47	2	298-324(1.82) 470-498(5.47)
gnl UG Hs#S2138904	2.15	1	181-208(2.15)
gnl UG Hs#S7112487	1.57	2	2-27(1.57) 121-146(0.21)
gnl UG Hs#S4820808	0.3	1	155-183(0.30)

gnl UG Hs#S1728969	1.65	1 32-57(1.65)
gnl UG Hs#S3603106	2.82	6 121-146(0.59) 909-934(0.91) 981-1006(1.72) 2108-2133(2.82) 2703-2728(0.98) 3563-3588(0.07)
gnl UG Hs#S1731484	4.15	2 8-35(0.04) 326-352(4.15)
gnl UG Hs#S6163451	2.13	1 21-46(2.13)
gnl UG Hs#S15636688	0.98	1 672-697(0.98)
gnl UG Hs#S2293653	2.13	1 335-360(2.13)
gnl UG Hs#S1730309	2.73	1 145-171(2.73)
gnl UG Hs#S15638157	1.34	1 213-239(1.34)
gnl UG Hs#S4046174	0.59	1 236-264(0.59)
gnl UG Hs#S4807670	2.57	2 68-94(2.57) 159-184(0.84)
gnl UG Hs#S2140200	3.04	1 1740-1766(3.04)
gnl UG Hs#S3219205	1.93	2 852-877(0.14) 1575-1600(1.93)
gnl UG Hs#S4554543	0.07	1 1518-1544(0.07)
gnl UG Hs#S4815101	0.07	1 74-99(0.07)
gnl UG Hs#S1731324	2.3	1 844-869(2.30)
gnl UG Hs#S1729853	1.82	2 554-580(0.46) 772-798(1.82)
gnl UG Hs#S1729406	2.72	2 1110-1137(0.70) 1244-1270(2.72)
gnl UG Hs#S4284766	4.43	1 133-157(4.43)
gnl UG Hs#S1730948	2.91	2 251-277(2.91) 348-376(0.15)
gnl UG Hs#S1731334	2.31	4 756-781(2.31) 1381-1408(0.23) 1527-1552(2.13) 3181-3207(0.50)
gnl UG Hs#S4810349	4.04	2 2037-2062(4.04) 2131-2156(2.72)
gnl UG Hs#S1731014	0.46	2 812-840(0.30) 961-986(0.46)
gnl UG Hs#S2294330	2	1 225-250(2.00)
gnl UG Hs#S4631399	0.92	2 1109-1136(0.92) 1218-1245(0.61)
gnl UG Hs#S1731191	1.26	1 217-241(1.26)
gnl UG Hs#S1729877	0.91	1 1481-1506(0.91)
gnl UG Hs#S4546011	0.46	1 495-521(0.46)
gnl UG Hs#S5978612	2.4	3 618-643(1.72) 1831-1859(2.40) 1880-1906(0.07)
gnl UG Hs#S2138973	2.17	7 471-496(0.50) 675-700(0.65) 1237-1265(1.20) 1457-1483(2.17) 1596-1621(1.04) 1915-1940(2.07) 1973-1998(0.11)
gnl UG Hs#S1729720	0.07	1 530-558(0.07)
gnl UG Hs#S1728644	1.08	2 97-123(0.69) 379-405(1.08)
gnl UG Hs#S1727238	2.04	5 226-251(2.04) 605-630(0.47) 788-814(1.66) 1266-1291(1.98) 1312-1338(0.97)
gnl UG Hs#S2139016	3.5	3 1064-1087(1.30) 1288-1314(3.50) 1446-1474(0.33)
gnl UG Hs#S2140604	1.11	2 37-62(1.07) 1202-1227(1.11)
gnl UG Hs#S6163426	3.84	7 180-205(3.84) 260-286(2.13) 340-365(0.81) 731-757(0.94) 1177-1203(1.10) 1410-1436(1.01) 1745-1771(1.57)
gnl UG Hs#S1729889	2.4	2 435-460(2.40) 749-774(1.33)
gnl UG Hs#S1729710	0.4	2 450-475(0.40) 649-674(0.17)
gnl UG Hs#S4816549	1.94	3 212-238(1.04) 595-621(1.94) 1054-1079(0.17)
gnl UG Hs#S5978948	1.94	3 4-29(1.94) 269-292(1.89) 722-745(1.25)
gnl UG Hs#S15639767	0.24	1 253-279(0.24)
gnl UG Hs#S14273454	0.66	2 236-261(0.04) 377-405(0.66)
gnl UG Hs#S2649413	2.62	10 118-144(2.62) 431-457(2.40) 1292-1319(0.51) 1684-1710(0.84) 1727-1754(0.45) 2197-2223(2.11) 2299-2324(1.52) 2340-2365(1.07) 2661-2686(0.56) 2756-2782(0.98)
gnl UG Hs#S2294286	3.81	4 264-289(0.87) 1030-1055(0.44) 1076-1101(1.25) 1212-1240(3.81)
gnl UG Hs#S2139240	2.98	3 1674-1700(2.76) 2137-2158(1.37) 2368-2395(2.98)
gnl UG Hs#S1727978	9.43	4 544-569(9.43) 767-792(1.13) 937-961(0.88) 1094-1121(2.82)
gnl UG Hs#S2293567	0.23	1 2161-2186(0.23)
gnl UG Hs#S2294419	1.26	2 840-868(1.26) 877-903(0.27)
gnl UG Hs#S7111393	4.04	5 295-318(2.47) 696-722(1.62) 861-887(1.17) 1105-1130(0.04) 1498-1524(4.04)
gnl UG Hs#S5978439	0.26	1 261-286(0.26)
gnl UG Hs#S3547208	0.4	1 658-683(0.40)
gnl UG Hs#S1726244	1.13	1 377-402(1.13)
gnl UG Hs#S3603198	1.4	1 3066-3094(1.40)
gnl UG Hs#S1729594	0.62	1 904-931(0.62)
gnl UG Hs#S1726644	0.91	1 446-472(0.91)

gnl UG Hs#S4812072	1.33	1	972-997(1.33)
gnl UG Hs#S4809359	0.36	1	798-823(0.36)
gnl UG Hs#S2293350	1.2	4	206-231(0.04) 625-651(1.04) 997-1022(1.20) 1240-1268(0.77)
gnl UG Hs#S4614236	2.57	1	1736-1761(2.57)
gnl UG Hs#S1729673	0.16	1	1146-1171(0.16)
gnl UG Hs#S1824302	1.82	1	185-211(1.82)
gnl UG Hs#S4827444	0.03	1	677-705(0.03)
gnl UG Hs#S1730036	2.91	1	848-876(2.91)
gnl UG Hs#S3220003	2.36	4	808-833(2.33) 898-923(2.36) 1356-1380(1.73) 1517-1542(0.23)
gnl UG Hs#S4815827	2.64	4	273-298(0.91) 674-699(0.08) 1661-1689(2.64) 2472-2497(1.62)
gnl UG Hs#S10831963	0.56	1	575-599(0.56)
gnl UG Hs#S1727745	3.43	1	143-168(3.43)
gnl UG Hs#S1727791	5.72	1	642-668(5.72)
gnl UG Hs#S1729259	0.4	1	57-82(0.40)
gnl UG Hs#S553719	4.68	7	763-789(2.50) 1343-1367(0.04) 2230-2256(0.76) 3895-3920(4.68) 4098-4123(0.40) 4358-4383(1.89) 4557-4585(0.71)
gnl UG Hs#S4046150	2.94	1	343-368(2.94)
gnl UG Hs#S2139452	2.37	4	967-992(1.26) 1539-1564(0.53) 2027-2051(2.37) 3337-3363(0.98)
gnl UG Hs#S3803675	1.82	8	227-252(1.82) 396-421(0.41) 439-464(0.07) 632-657(0.40) 730-760(1.33) 762-790(0.01) 988-1014(1.55) 1077-1106(1.61)
gnl UG Hs#S10831563	2.2	6	376-400(0.48) 513-536(2.20) 643-668(1.13) 879-904(0.33) 1115-1141(0.67) 1313-1339(1.08)
gnl UG Hs#S5979235	1.55	1	95-121(1.55)
gnl UG Hs#S1731030	1.34	2	31-57(1.34) 161-188(0.62)
gnl UG Hs#S1731913	1.3	1	198-224(1.30)
gnl UG Hs#S2293515	2.15	1	231-257(2.15)
gnl UG Hs#S3603816	2.36	1	351-379(2.36)
gnl UG Hs#S3601631	4.4	4	853-879(1.14) 2717-2743(4.40) 3467-3495(0.23) 3654-3680(0.27)
gnl UG Hs#S5979131	0.62	4	947-973(0.62) 983-1008(0.34) 1133-1158(0.13) 1197-1224(0.48)
gnl UG Hs#S3219741	6.85	1	176-201(6.85)
gnl UG Hs#S4816640	1.21	3	1795-1820(0.40) 2109-2132(0.13) 2781-2807(1.21)
gnl UG Hs#S1728959	1.08	1	431-456(1.08)
gnl UG Hs#S4283824	1.5	4	548-573(0.57) 689-714(0.33) 730-755(1.50) 866-892(0.17)
gnl UG Hs#S4810873	2.69	2	297-322(1.34) 335-360(2.69)
gnl UG Hs#S1090734	1.01	2	1642-1667(0.84) 1944-1969(1.01)
gnl UG Hs#S11047047	0.9	1	2148-2171(0.90)
gnl UG Hs#S5978605	2.97	1	1706-1731(2.97)
gnl UG Hs#S1824397	0.07	1	1076-1101(0.07)
gnl UG Hs#S4396097	2.3	2	9-34(2.04) 75-100(2.30)
gnl UG Hs#S2293476	3.34	3	244-271(0.28) 295-324(2.36) 1807-1832(3.34)
gnl UG Hs#S4553172	0.95	1	539-562(0.95)
gnl UG Hs#S1726490	4.55	2	2797-2823(4.55) 2824-2849(1.33)
gnl UG Hs#S4807954	1.57	2	874-899(1.57) 1094-1120(0.98)
gnl UG Hs#S1726660	1.53	1	262-288(1.53)
gnl UG Hs#S3803503	0.62	1	217-242(0.62)
gnl UG Hs#S2294218	3.75	1	168-193(3.75)
gnl UG Hs#S4616143	1.4	2	1926-1951(1.40) 2382-2411(0.79)
gnl UG Hs#S5931267	3.11	1	418-443(3.11)
gnl UG Hs#S3219951	2.36	3	309-334(2.36) 351-377(1.20) 418-444(2.26)
gnl UG Hs#S5978798	0.34	1	230-257(0.34)
gnl UG Hs#S1732205	0.72	2	427-452(0.72) 710-735(0.28)
gnl UG Hs#S1729307	1.62	1	326-352(1.62)
gnl UG Hs#S1731775	3.33	5	197-223(1.76) 301-328(0.41) 850-876(3.33) 968-993(0.49) 1047-1073(1.01)
gnl UG Hs#S4807691	6.3	3	247-272(6.30) 369-394(2.50) 1390-1415(0.16)
gnl UG Hs#S4553583	0.47	2	386-411(0.47) 444-472(0.01)
gnl UG Hs#S4553446	2.83	5	385-410(0.65) 624-651(0.24) 717-742(1.48) 816-841(2.83) 1068-1094(1.34)
gnl UG Hs#S15846850	2.89	5	108-134(1.39) 1002-1028(2.89) 1264-1289(1.16) 2030-2055(0.48) 2101-2127(0.05)

gnl UG Hs#S4614181	0.46	1 504-531(0.46)
gnl UG Hs#S1732351	0.94	2 482-507(0.94) 564-592(0.85)
gnl UG Hs#S1731092	1.27	1 379-407(1.27)
gnl UG Hs#S1727068	1.49	1 1594-1622(1.49)
gnl UG Hs#S7112481	4.79	1 97-122(4.79)
gnl UG Hs#S4810629	1.5	1 911-936(1.50)
gnl UG Hs#S4827232	3.34	7 192-220(0.71) 227-253(1.41) 590-616(2.69) 902-929(0.24) 2035-2060(0.76) 2286-2311(3.34) 2978-3003(2.97)
gnl UG Hs#S1727413	0.37	1 399-422(0.37)
gnl UG Hs#S3355687	0.4	1 1094-1117(0.40)
gnl UG Hs#S4816553	1.07	1 20-48(1.07)
gnl UG Hs#S3992070	1.39	2 1301-1328(1.39) 1765-1788(0.25)
gnl UG Hs#S5495037	3.79	1 188-213(3.79)
gnl UG Hs#S4553530	0.76	2 340-366(0.76) 640-665(0.52)
gnl UG Hs#S1726213	1.16	2 760-784(1.16) 1033-1059(0.08)
gnl UG Hs#S1729602	0.3	2 483-511(0.23) 1584-1609(0.30)
gnl UG Hs#S1731719	0.63	3 254-279(0.63) 1595-1620(0.20) 1651-1676(0.36)
gnl UG Hs#S4435865	0.69	1 1848-1874(0.69)
gnl UG Hs#S1732441	0.49	2 575-603(0.04) 648-676(0.49)
gnl UG Hs#S5978666	4.2	5 70-96(0.13) 391-416(4.20) 883-909(0.01) 1529-1555(0.66) 2362-2385(0.56)
gnl UG Hs#S6664652	4.11	2 23-48(0.55) 102-127(4.11)
gnl UG Hs#S5978528	5.26	3 360-385(5.26) 667-690(0.24) 938-963(0.33)
gnl UG Hs#S1729960	3.72	1 174-199(3.72)
gnl UG Hs#S14802368	0.3	1 971-994(0.30)
gnl UG Hs#S4807662	2.4	3 545-571(1.27) 624-649(0.57) 1112-1137(2.40)
gnl UG Hs#S1727637	1.45	1 919-947(1.45)
gnl UG Hs#S3219628	1.66	5 135-163(1.66) 317-342(1.11) 450-475(0.26) 600-623(0.45) 801-826(1.13)
gnl UG Hs#S3601515	0.17	1 397-422(0.17)
gnl UG Hs#S4820086	2.26	1 487-512(2.26)
gnl UG Hs#S1728881	4.49	6 164-189(2.23) 549-574(4.04) 650-675(4.49) 1037-1064(0.62) 1822-1847(0.39) 1925-1951(2.30)
gnl UG Hs#S1824309	0.17	1 124-150(0.17)
gnl UG Hs#S15644235	0.69	2 13-38(0.59) 60-85(0.69)
gnl UG Hs#S1726611	0.11	1 165-190(0.11)
gnl UG Hs#S1726218	2.35	4 283-311(1.97) 338-362(1.14) 416-441(1.78) 542-567(2.35)
gnl UG Hs#S4554616	2.67	1 258-283(2.67)
gnl UG Hs#S5978398	1.91	4 30-58(1.81) 807-832(0.33) 858-883(1.91) 1119-1145(0.21)
gnl UG Hs#S11046706	2.52	3 105-131(0.66) 277-302(2.52) 688-712(0.88)
gnl UG Hs#S3219509	3.79	4 152-180(1.07) 747-775(0.33) 880-905(3.79) 915-940(0.50)
gnl UG Hs#S3220223	4.21	2 908-934(2.50) 1349-1374(4.21)
gnl UG Hs#S15639083	2.65	4 318-346(2.65) 282-307(0.07) 1428-1453(1.11) 1662-1686(0.98)
gnl UG Hs#S15638434	4.4	3 143-169(4.40) 398-424(1.30) 669-692(1.24)
gnl UG Hs#S4284726	0.4	1 83-109(0.40)
gnl UG Hs#S2294299	2.08	1 436-462(2.08)
gnl UG Hs#S3439007	0.34	1 363-388(0.34)
gnl UG Hs#S2293748	0.14	1 612-638(0.14)
gnl UG Hs#S7111352	0.04	1 655-681(0.04)
gnl UG Hs#S3803689	0.89	1 1477-1500(0.89)
gnl UG Hs#S15898531	0.56	1 1665-1691(0.56)
gnl UG Hs#S3881168	0.34	1 277-302(0.34)
gnl UG Hs#S3619293	0.84	1 548-576(0.84)
gnl UG Hs#S1727137	2.56	2 148-173(2.56) 405-430(1.30)
gnl UG Hs#S1730792	2.04	3 317-344(1.55) 403-429(1.72) 453-478(2.04)
gnl UG Hs#S11154090	2.5	1 269-294(2.50)
gnl UG Hs#S3601673	0.59	1 128-156(0.59)
gnl UG Hs#S1731463	1.36	1 65-92(1.36)

gnl UG Hs#S1728370	0.23	1 365-391(0.23)
gnl UG Hs#S1730402	2.94	8 279-305(0.33) 932-957(0.68) 1408-1433(0.20) 1897-1923(1.86) 1927-1952(0.30) 2335-2360(2.94) 4097-4122(1.43) 4839-4866(2.20)
gnl UG Hs#S3220040	1.15	1 676-701(1.15)
gnl UG Hs#S5978595	3.3	8 246-271(0.72) 461-486(2.92) 787-812(0.30) 966-993(1.42) 1074-1102(3.30) 1142-1171(1.81) 1617-1642(2.67) 1687-1715(2.15)
gnl UG Hs#S1727940	4.33	1 458-483(4.33)
gnl UG Hs#S3601682	2.68	4 292-318(2.68) 326-352(0.69) 358-382(0.40) 483-508(1.88)
gnl UG Hs#S4621265	1.13	1 1227-1255(1.13)
gnl UG Hs#S11046800	1.52	2 2152-2178(0.33) 2203-2229(1.52)
gnl UG Hs#S1729092	1.21	1 246-274(1.21)
gnl UG Hs#S2294034	0.76	1 1385-1411(0.76)
gnl UG Hs#S1732370	3.57	3 353-380(1.14) 539-565(3.57) 665-690(2.47)
gnl UG Hs#S2293504	1.46	3 561-587(0.33) 1334-1360(1.40) 1491-1516(1.46)
gnl UG Hs#S2139405	0.07	1 129-154(0.07)
gnl UG Hs#S6664841	1.43	3 1075-1100(0.23) 2227-2252(1.43) 2520-2543(0.47)
gnl UG Hs#S3220212	0.52	1 27-51(0.52)
gnl UG Hs#S4826757	0.82	1 576-602(0.82)
gnl UG Hs#S5931459	0.52	1 237-260(0.52)
gnl UG Hs#S4825464	2.19	3 515-539(1.99) 931-956(2.19) 1465-1490(1.90)
gnl UG Hs#S11046560	2.96	7 191-218(0.44) 551-577(2.30) 738-763(0.36) 782-810(2.96) 851-876(1.57) 1106-1132(0.82) 1377-1402(0.17)
gnl UG Hs#S3603833	2.56	2 95-120(0.04) 466-491(2.56)
gnl UG Hs#S3219818	2.57	2 299-324(1.24) 1134-1160(2.57)
gnl UG Hs#S3438897	3.91	6 604-629(0.65) 809-836(3.91) 1180-1205(0.59) 1235-1260(0.62) 1281-1309(3.24) 1315-1340(3.30)
gnl UG Hs#S4824077	2.72	7 317-345(0.07) 369-394(2.72) 1203-1228(2.17) 1971-1997(2.57) 2384-2409(0.48) 2727-2753(0.13) 2834-2860(0.30)
gnl UG Hs#S3219575	2.67	6 562-587(0.98) 760-784(0.73) 1002-1027(1.69) 1357-1382(0.76) 1606-1633(0.08) 1799-1825(2.67)
gnl UG Hs#S15631443	1.91	1 202-227(1.91)
gnl UG Hs#S1727792	4.11	2 556-581(0.63) 628-654(4.11)
gnl UG Hs#S2294213	2.48	1 179-204(2.48)
gnl UG Hs#S3940267	0.84	1 1303-1329(0.84)
gnl UG Hs#S15631489	5.18	1 453-479(5.18)
gnl UG Hs#S2294207	6.18	1 1899-1925(6.18)
gnl UG Hs#S1731450	1.43	2 773-798(1.43) 1238-1264(0.84)
gnl UG Hs#S1726720	2.72	3 996-1022(2.72) 1525-1553(0.79) 3549-3574(2.30)
gnl UG Hs#S3220002	1.76	5 978-1003(1.08) 1186-1213(1.24) 1837-1863(1.76) 2184-2209(1.49) 2410-2435(0.33)
gnl UG Hs#S5978628	0.26	1 446-472(0.26)
gnl UG Hs#S15644061	3.24	4 1116-1142(0.50) 1943-1969(2.04) 1988-2013(3.24) 2085-2116(0.45)
gnl UG Hs#S2293896	1.23	2 148-176(0.91) 827-853(1.23)
gnl UG Hs#S2293292	2.68	4 267-292(2.68) 960-985(0.14) 1002-1027(0.40) 1193-1218(0.46)
gnl UG Hs#S7112555	1.11	5 122-147(0.88) 210-238(0.50) 895-921(0.97) 1651-1674(1.11) 2911-2936(0.23)
gnl UG Hs#S1730794	4.11	1 132-157(4.11)
gnl UG Hs#S2294309	0.72	1 160-186(0.72)
gnl UG Hs#S5517547	3.14	9 66-91(2.26) 352-380(1.16) 1070-1095(3.14) 1652-1677(1.53) 1851-1876(0.46) 1981-2009(0.23) 2111-2140(0.39) 2586-2613(0.42) 2821-2846(1.72)
gnl UG Hs#S2294021	0.47	1 100-128(0.47)
gnl UG Hs#S3220014	0.36	1 380-403(0.36)
gnl UG Hs#S1728112	1.15	1 233-258(1.15)
gnl UG Hs#S6163458	1.26	1 377-405(1.26)
gnl UG Hs#S15635470	0.23	1 131-157(0.23)
gnl UG Hs#S5978577	1.58	1 2079-2104(1.58)
gnl UG Hs#S1726633	2.4	1 133-158(2.40)
gnl UG Hs#S7112062	1.46	2 186-211(0.67) 236-261(1.46)
gnl UG Hs#S4546092	2.08	1 403-428(2.08)
gnl UG Hs#S15641456	3.24	5 351-376(3.24) 381-406(1.04) 419-446(0.62) 845-873(1.85) 885-910(0.40)
gnl UG Hs#S2140446	2.39	1 639-664(2.39)
gnl UG Hs#S4822106	0.24	2 168-196(0.13) 461-486(0.24)
gnl UG Hs#S3547081	1.98	2 3638-3666(0.81) 3742-3767(1.98)

gnl UG Hs#S2139556	5.08	5	143-171(0.52)	179-204(0.72)	264-290(0.54)	1249-1274(1.24)	1390-1416(5.08)
gnl UG Hs#S1731931	1.45	1	675-699(1.45)				
gnl UG Hs#S1730017	1.3	2	689-712(0.99)	1285-1312(1.30)			
gnl UG Hs#S6693362	3.2	3	803-828(3.20)	928-953(0.04)	1715-1740(0.72)		
gnl UG Hs#S4828106	1.42	3	401-428(0.09)	581-608(1.42)	1177-1203(1.40)		
gnl UG Hs#S3219532	1.62	2	263-289(0.46)	296-321(1.62)			
gnl UG Hs#S3619557	4.3	1	128-156(4.30)				
gnl UG Hs#S4284380	3.52	2	1377-1402(3.52)	3897-3922(0.11)			
gnl UG Hs#S1824345	1.65	4	533-558(0.01)	1914-1940(0.72)	2506-2532(1.65)	3095-3120(0.30)	
gnl UG Hs#S5978629	2.53	12	195-222(0.52)	781-807(0.53)	831-856(0.33)	897-922(0.75)	1355-1380(2.53)
gnl UG Hs#S3619335	0.97	1	218-241(0.97)				
gnl UG Hs#S1732418	1.04	2	368-394(0.44)	423-448(1.04)			
gnl UG Hs#S3619732	0.64	1	422-450(0.64)				
gnl UG Hs#S3547088	0.43	1	1119-1145(0.43)				
gnl UG Hs#S1729898	1.3	2	153-179(1.30)	185-210(0.08)			
gnl UG Hs#S15640252	1.81	1	176-204(1.81)				
gnl UG Hs#S3219463	0.94	2	1189-1214(0.94)	1559-1585(0.65)			
gnl UG Hs#S2293293	0.72	2	320-346(0.72)	424-449(0.72)			
gnl UG Hs#S3219439	0.13	1	828-853(0.13)				
gnl UG Hs#S3219472	2.46	1	104-129(2.46)				
gnl UG Hs#S3219688	0.55	1	84-109(0.55)				
gnl UG Hs#S1731837	5.78	2	205-231(0.90)	428-453(5.78)			
gnl UG Hs#S1730778	3.3	1	1759-1784(3.30)				
gnl UG Hs#S3437922	3.79	6	36-61(0.25)	191-216(0.30)	340-365(0.13)	504-529(3.79)	1052-1077(0.46)
gnl UG Hs#S14863777	0.81	1	14-42(0.81)				
gnl UG Hs#S1728263	5.82	1	62-87(5.82)				
gnl UG Hs#S15633722	1.9	2	76-101(1.90)	1320-1348(1.71)			
gnl UG Hs#S4831120	3.16	7	64-89(0.72)	692-717(0.23)	1400-1425(1.30)	1886-1911(3.16)	2328-2353(0.72)
gnl UG Hs#S2139597	0.82	1	2650-2675(0.82)				
gnl UG Hs#S4826636	0.88	1	87-112(0.88)				
gnl UG Hs#S1730667	0.14	1	785-810(0.14)				
gnl UG Hs#S15115683	2.65	2	296-321(2.65)	357-385(0.81)			
gnl UG Hs#S4046177	3.52	2	1640-1665(2.13)	2170-2195(3.52)			
gnl UG Hs#S1969100	2.3	6	145-171(1.01)	1613-1638(2.30)	1674-1699(0.97)	1872-1901(1.29)	2060-2088(1.66)
gnl UG Hs#S3438161	2.69	9	130-154(0.44)	488-513(1.01)	1144-1170(0.56)	1307-1335(1.26)	2205-2233(1.47)
gnl UG Hs#S2140507	1.52	1	177-205(1.52)				
gnl UG Hs#S2138670	1.3	1	478-503(1.30)				
gnl UG Hs#S3817923	0.94	3	124-152(0.94)	278-307(0.39)	399-425(0.82)		
gnl UG Hs#S4819908	0.5	2	264-289(0.50)	1576-1601(0.30)			
gnl UG Hs#S3355659	1.21	1	63-88(1.21)				
gnl UG Hs#S1729620	0.4	1	152-177(0.40)				
gnl UG Hs#S1729634	2.62	5	4-28(1.53)	200-226(2.62)	510-535(1.46)	595-620(1.20)	899-925(0.33)
gnl UG Hs#S1730084	1.98	11	284-310(0.40)	450-476(0.58)	1572-1597(0.62)	2386-2412(0.11)	2563-2589(0.11)
gnl UG Hs#S2294426	0.91	1	274-300(0.91)				
gnl UG Hs#S1729781	1.2	1	36-61(1.20)				
gnl UG Hs#S2293250	2.13	1	231-256(2.13)				
gnl UG Hs#S3219660	0.13	1	67-93(0.13)				
gnl UG Hs#S7111251	0.16	1	590-615(0.16)				
gnl UG Hs#S2294541	0.13	1	236-265(0.13)				
gnl UG Hs#S4826191	0.59	1	1224-1248(0.59)				
gnl UG Hs#S2293554	0.79	2	1106-1131(0.17)	1223-1249(0.79)			
gnl UG Hs#S1729506	1.83	2	1111-1136(1.83)	1684-1710(0.86)			
gnl UG Hs#S1728908	1.27	1	621-647(1.27)				
gnl UG Hs#S2139970	1.03	3	125-150(1.03)	1200-1225(0.14)	1341-1367(0.23)		

gnl UG Hs#S3814610	2.3	1 509-534(2.30)
gnl UG Hs#S5979196	2.75	1 7-32(2.75)
gnl UG Hs#S4823222	0.82	1 664-690(0.82)
gnl UG Hs#S2293683	2.47	1 251-274(2.47)
gnl UG Hs#S11046663	0.68	1 914-939(0.68)
gnl UG Hs#S4823686	3.2	3 72-100(3.20) 537-560(1.87) 1206-1231(2.56)
gnl UG Hs#S1730664	0.56	1 309-335(0.56)
gnl UG Hs#S3987305	4.04	4 101-126(4.04) 210-236(0.67) 476-501(0.20) 637-662(0.07)
gnl UG Hs#S2294480	1.53	2 98-124(0.10) 259-284(1.53)
gnl UG Hs#S1728536	0.33	2 487-513(0.27) 599-627(0.33)
gnl UG Hs#S4821437	3.3	15 534-559(0.08) 890-918(0.08) 1024-1052(0.47) 1356-1381(2.98) 1463-1486(0.04) 2118-2146(0.45) 2295-2320(3.30) 2686-2710(0.14) 3123-3148(3.13) 3394-3419(1.87) 3432-3457(1.46) 3549-3574(0.07)
gnl UG Hs#S1726581	3.2	9 1220-1246(2.50) 1332-1357(3.20) 1655-1683(1.52) 1808-1833(0.71) 1934-1959(2.59) 2487-2510(2.30) 2846-2875(3.09) 3065-3091(1.79) 3377-3402(1.04)
gnl UG Hs#S4436454	0.23	1 504-532(0.23)
gnl UG Hs#S3438486	2.72	1 337-362(2.72)
gnl UG Hs#S3438830	4.36	1 281-306(4.36)
gnl UG Hs#S1729824	4.4	3 276-301(0.65) 608-632(0.95) 1430-1455(4.40)
gnl UG Hs#S3438762	0.2	1 663-688(0.20)
gnl UG Hs#S2294004	1.13	2 61-86(1.13) 93-121(0.07)
gnl UG Hs#S15632361	5.97	6 271-296(5.97) 499-524(3.04) 538-563(1.52) 932-959(1.41) 2042-2067(2.08) 2299-2325(0.76)
gnl UG Hs#S2293549	3.36	3 789-814(0.58) 911-936(1.17) 1064-1089(3.36)
gnl UG Hs#S1728506	1.96	1 262-287(1.96)
gnl UG Hs#S2139792	1.13	4 583-608(1.13) 682-709(0.14) 1566-1592(0.17) 2085-2109(0.72)
gnl UG Hs#S3601652	0.08	1 522-547(0.08)
gnl UG Hs#S4435810	3.03	4 1104-1129(1.50) 1162-1190(1.49) 2145-2170(3.03) 2303-2331(2.21)
gnl UG Hs#S2294277	1.72	2 1740-1765(0.60) 1900-1925(1.72)
gnl UG Hs#S1824392	5.11	6 63-88(5.11) 162-187(1.40) 210-235(0.91) 272-297(1.17) 517-542(0.68) 546-572(0.56)
gnl UG Hs#S4816328	2.34	1 510-535(2.34)
gnl UG Hs#S7111681	1.34	1 105-131(1.34)
gnl UG Hs#S1726833	1.4	1 42-67(1.40)
gnl UG Hs#S1731780	1.83	2 463-491(1.07) 666-691(1.83)
gnl UG Hs#S1727465	1.5	4 449-474(0.13) 1301-1327(0.28) 1363-1388(0.68) 1574-1598(1.50)
gnl UG Hs#S3219737	0.04	1 270-296(0.04)
gnl UG Hs#S4828962	2.39	1 623-648(2.39)
gnl UG Hs#S4842744	2.5	1 253-278(2.50)
gnl UG Hs#S5978519	0.04	1 390-413(0.04)
gnl UG Hs#S15115742	1.94	2 785-810(1.94) 1332-1358(0.04)
gnl UG Hs#S5931240	3.99	1 164-190(3.99)
gnl UG Hs#S3547109	1.85	7 87-112(1.79) 452-480(0.81) 939-965(1.85) 1110-1136(0.33) 1615-1641(0.33) 1719-1745(1.21) 1823-1848(1.21)
gnl UG Hs#S2139686	2.76	3 604-630(2.76) 956-981(0.26) 1857-1880(0.21)
gnl UG Hs#S1729678	2.15	3 647-672(0.43) 3200-3226(2.15) 3255-3279(1.07)
gnl UG Hs#S1731273	1.41	1 559-584(1.41)
gnl UG Hs#S3219991	0.91	1 158-185(0.91)
gnl UG Hs#S3219554	0.74	1 1023-1048(0.74)
gnl UG Hs#S2293351	2.2	5 176-201(1.13) 470-495(2.20) 570-596(0.34) 1506-1531(0.50) 1972-1997(2.04)
gnl UG Hs#S1728568	2.85	4 250-275(0.58) 615-640(2.85) 1207-1232(0.90) 1270-1297(1.91)
gnl UG Hs#S4435976	1.21	1 1121-1146(1.21)
gnl UG Hs#S3268	2.72	3 111-136(0.32) 200-226(2.72) 338-366(0.81)
gnl UG Hs#S4435753	4.3	1 190-216(4.30)
gnl UG Hs#S7089764	0.9	1 1123-1148(0.90)
gnl UG Hs#S3219061	3.97	5 26-52(3.97) 187-212(0.91) 373-399(1.97) 589-614(0.13) 750-776(1.84)
gnl UG Hs#S4553982	0.75	1 887-913(0.75)
gnl UG Hs#S2294383	0.17	1 917-944(0.17)
gnl UG Hs#S14802387	2.5	1 1177-1204(2.50)
gnl UG Hs#S4621599	6.19	4 28-53(0.72) 60-85(1.62) 156-181(6.19) 444-472(1.34)

gnl UG Hs#S1729977	2.67	6 476-501(1.88) 730-753(2.67) 1215-1240(0.72) 1253-1278(0.14) 1973-1999(1.08) 2165-2190(0.98)
gnl UG Hs#S3973039	1.84	1 440-467(1.84)
gnl UG Hs#S3219664	3.2	1 696-724(3.20)
gnl UG Hs#S1731402	1.66	1 113-142(1.66)
gnl UG Hs#S1726428	3.11	1 321-347(3.11)
gnl UG Hs#S1730347	2.14	2 1036-1061(0.57) 1232-1257(2.14)
gnl UG Hs#S7111139	0.34	1 470-495(0.34)
gnl UG Hs#S2140233	0.97	2 202-230(0.97) 554-579(0.91)
gnl UG Hs#S11046558	3.47	1 753-778(3.47)
gnl UG Hs#S1731840	1	2 547-572(0.46) 809-834(1.00)
gnl UG Hs#S2139649	3.62	5 878-903(0.24) 1408-1433(2.46) 1847-1872(0.26) 1981-2006(3.62) 2738-2762(2.29)
gnl UG Hs#S3619289	1.27	1 528-554(1.27)
gnl UG Hs#S3619678	3.11	11 332-360(1.30) 598-623(3.11) 825-850(0.30) 1039-1064(0.92) 1136-1161(0.33) 1566-1591(1.11) 2558-2583(2.62) 2902-2927(2.26) 2982-3008(2.69) 3020-3045(3.11) 3423-3449(0.13)
gnl UG Hs#S2138823	3.4	5 212-237(1.84) 1172-1198(0.69) 1371-1396(2.30) 1513-1540(3.40) 1618-1642(0.67)
gnl UG Hs#S1727669	1.72	1 250-275(1.72)
gnl UG Hs#S1727678	1.95	2 561-586(0.85) 1277-1303(1.95)
gnl UG Hs#S3219903	0.11	1 826-852(0.11)
gnl UG Hs#S1731167	0.08	1 562-587(0.08)
gnl UG Hs#S2139487	2.29	2 74-103(2.29) 558-583(0.40)
gnl UG Hs#S5978654	0.24	1 285-311(0.24)
gnl UG Hs#S1729198	5.17	3 386-412(3.05) 1100-1128(1.45) 1297-1323(5.17)
gnl UG Hs#S1729438	1.53	2 89-114(1.53) 196-222(0.12)
gnl UG Hs#S1729287	1.02	1 99-127(1.02)
gnl UG Hs#S3814607	2.5	1 493-518(2.50)
gnl UG Hs#S3814695	2.08	2 195-220(1.62) 271-299(2.08)
gnl UG Hs#S2139162	1.07	1 1739-1765(1.07)
gnl UG Hs#S3547122	2.1	3 157-182(0.21) 1725-1751(2.10) 2097-2123(0.17)
gnl UG Hs#S3603164	3.4	1 357-382(3.40)
gnl UG Hs#S2293468	0.3	1 552-577(0.30)
gnl UG Hs#S4807740	3.52	2 236-263(3.52) 931-958(0.23)
gnl UG Hs#S1731295	0.69	1 694-720(0.69)
gnl UG Hs#S4823511	2.4	1 94-119(2.40)
gnl UG Hs#S15636406	4.62	5 143-169(4.12) 1005-1028(4.11) 1071-1098(0.69) 1288-1313(4.62) 1572-1599(0.32)
gnl UG Hs#S4822731	3.89	3 126-151(3.89) 226-249(1.01) 448-475(1.83)
gnl UG Hs#S3218980	0.51	2 651-677(0.30) 775-801(0.51)
gnl UG Hs#S3438377	0.84	2 1437-1462(0.46) 1715-1746(0.84)
gnl UG Hs#S2293885	1.65	1 657-682(1.65)
gnl UG Hs#S15631946	0.89	1 218-241(0.89)
gnl UG Hs#S2139834	1.66	2 605-631(1.66) 667-693(0.50)
gnl UG Hs#S1367569	1.75	1 901-927(1.75)
gnl UG Hs#S4820119	1.49	1 629-657(1.49)
gnl UG Hs#S4620958	0.88	1 1729-1756(0.88)
gnl UG Hs#S3438817	1.88	3 398-426(0.49) 443-466(0.24) 721-749(1.88)
gnl UG Hs#S3603845	1.23	1 672-697(1.23)
gnl UG Hs#S4813130	0.48	1 5-30(0.48)
gnl UG Hs#S3814598	1.72	3 237-263(1.39) 374-399(0.11) 701-728(1.72)
gnl UG Hs#S4811429	4.72	1 2229-2254(4.72)
gnl UG Hs#S2140358	0.26	1 979-1005(0.26)
gnl UG Hs#S3219490	2.76	2 1374-1397(0.89) 1707-1732(2.76)
gnl UG Hs#S2293461	1.07	1 377-405(1.07)
gnl UG Hs#S4435132	4.21	2 400-425(4.21) 458-483(4.21)
gnl UG Hs#S4824331	2.13	3 200-226(0.72) 473-497(2.13) 1299-1324(1.53)
gnl UG Hs#S15634065	1.04	1 463-488(1.04)
gnl UG Hs#S4001877	0.18	1 408-433(0.18)

gnl UG Hs#S4545994	2.07	2 539-564(2.07) 1132-1160(1.09)
gnl UG Hs#S3219486	1.01	1 72-98(1.01)
gnl UG Hs#S4809640	3.26	1 3248-3273(3.26)
gnl UG Hs#S1727923	5.78	3 345-370(5.78) 789-814(2.53) 839-865(1.76)
gnl UG Hs#S1729777	2.66	2 82-108(0.10) 203-227(2.66)
gnl UG Hs#S4621097	2.84	8 45-71(1.86) 547-573(0.72) 589-615(1.40) 738-764(2.84) 947-975(0.40) 2021-2049(0.81) 2273-2299(1.40) 2441-2469(0.04)
gnl UG Hs#S4820013	0.72	2 710-735(0.72) 783-808(0.04)
gnl UG Hs#S4812509	3.72	6 289-314(3.72) 1546-1571(0.91) 1694-1720(2.39) 1906-1931(0.87) 2129-2154(2.67) 3598-3623(1.56)
gnl UG Hs#S1728497	0.34	2 1065-1091(0.34) 2936-2964(0.01)
gnl UG Hs#S1731570	3.08	6 589-614(0.91) 1262-1288(3.08) 1425-1451(0.98) 1580-1605(1.34) 1995-2020(2.56) 2021-2048(2.59)
gnl UG Hs#S4828112	0.52	1 1003-1028(0.52)
gnl UG Hs#S5978432	4.17	2 759-784(4.17) 1138-1165(0.47)
gnl UG Hs#S1732117	1.23	1 25-51(1.23)
gnl UG Hs#S4545949	1.88	4 392-420(1.88) 1316-1341(0.68) 1356-1381(0.21) 1395-1419(1.08)
gnl UG Hs#S3438784	5.26	2 212-240(4.53) 903-928(5.26)
gnl UG Hs#S4044897	1.62	2 627-652(1.62) 748-774(0.91)
gnl UG Hs#S2293329	3.63	2 136-161(3.63) 206-231(0.30)
gnl UG Hs#S4824007	1.14	8 276-302(0.76) 371-396(0.08) 918-944(0.08) 949-974(1.11) 1011-1039(1.14) 2111-2136(0.36) 2137-2162(1.02) 2169-2194(0.72)
gnl UG Hs#S1730090	0.33	1 709-734(0.33)
gnl UG Hs#S2294640	3.71	5 92-120(0.87) 526-551(3.71) 1025-1051(3.04) 1106-1135(1.52) 1582-1609(2.88)
gnl UG Hs#S1729312	2.04	1 3402-3426(2.04)
gnl UG Hs#S4044522	1.1	2 6-31(1.10) 1631-1656(0.50)
gnl UG Hs#S5978441	1.66	2 100-128(1.66) 179-207(0.20)
gnl UG Hs#S4816249	1.38	3 105-131(0.06) 293-318(0.04) 700-726(1.38)
gnl UG Hs#S4283388	2.3	1 481-506(2.30)
gnl UG Hs#S3219151	0.31	1 425-450(0.31)
gnl UG Hs#S1726998	0.27	1 136-160(0.27)
gnl UG Hs#S15633111	1.76	2 490-515(0.72) 762-788(1.76)
gnl UG Hs#S1732194	0.47	1 137-162(0.47)
gnl UG Hs#S14272721	0.49	1 487-510(0.49)
gnl UG Hs#S2140070	0.45	1 139-167(0.45)
gnl UG Hs#S1263813	0.56	2 779-805(0.27) 970-995(0.56)
gnl UG Hs#S3439109	0.34	1 166-191(0.34)
gnl UG Hs#S2293285	2.4	1 624-652(2.40)
gnl UG Hs#S1730897	3.04	1 1713-1738(3.04)
gnl UG Hs#S3619343	0.2	1 91-118(0.20)
gnl UG Hs#S3218975	5.39	1 1695-1722(5.39)
gnl UG Hs#S15632263	1.91	1 2501-2529(1.91)
gnl UG Hs#S15636745	1.08	1 823-848(1.08)
gnl UG Hs#S4807712	1.33	1 1483-1508(1.33)
gnl UG Hs#S2140636	0.67	1 949-975(0.67)
gnl UG Hs#S3546998	0.71	1 41-69(0.71)
gnl UG Hs#S2138777	2.65	1 112-140(2.65)
gnl UG Hs#S1726424	0.75	2 911-936(0.67) 949-974(0.75)
gnl UG Hs#S1732400	1.62	3 462-490(0.08) 676-702(1.62) 748-773(0.55)
gnl UG Hs#S3940800	5.58	1 549-574(5.58)
gnl UG Hs#S2138717	0.21	1 441-464(0.21)
gnl UG Hs#S11046675	2.98	2 29-54(2.98) 88-113(0.65)
gnl UG Hs#S4825991	3.37	4 429-454(0.04) 1121-1146(2.52) 1321-1347(3.37) 1409-1435(0.34)
gnl UG Hs#S3619507	1.34	2 497-523(1.34) 566-593(0.43)
gnl UG Hs#S11046698	1.18	1 477-502(1.18)
gnl UG Hs#S7112142	1.5	2 532-558(1.10) 1380-1405(1.50)
gnl UG Hs#S3437930	5.3	2 185-211(5.30) 318-344(4.72)
gnl UG Hs#S1726314	0.94	1 1213-1238(0.94)

gnl UG Hs#S4806455	4	4	1021-1046(2.26) 2061-2085(4.00) 2110-2135(3.89) 2188-2213(2.76)
gnl UG Hs#S14812827	1.98	8	54-79(0.72) 355-380(0.15) 555-580(1.98) 1012-1038(0.67) 1308-1333(0.40) 1575-1598(1.59) 1718-1744(0.50) 1857-1883(1.91)
gnl UG Hs#S2162	0.76	1	333-359(0.76)
gnl UG Hs#S4284973	0.14	2	746-774(0.08) 1286-1311(0.14)
gnl UG Hs#S1726788	3.56	2	232-257(0.40) 422-447(3.56)
gnl UG Hs#S14863726	0.33	1	321-346(0.33)
gnl UG Hs#S4807945	1.82	1	343-370(1.82)
gnl UG Hs#S3218943	0.49	2	685-708(0.49) 839-863(0.10)
gnl UG Hs#S1824273	2.62	2	253-277(2.62) 208-236(0.23)
gnl UG Hs#S3219289	4.88	3	27-53(0.44) 233-261(4.88) 976-1001(0.89)
gnl UG Hs#S1731370	0.88	1	343-370(0.88)
gnl UG Hs#S6163436	3.33	2	210-235(3.33) 611-637(2.12)
gnl UG Hs#S1729768	1.3	4	52-78(0.50) 106-134(1.18) 236-262(0.15) 707-733(1.30)
gnl UG Hs#S3973061	0.07	1	533-558(0.07)
gnl UG Hs#S3619171	1.93	2	64-89(0.46) 145-170(1.93)
gnl UG Hs#S3880668	2.5	2	590-616(2.50) 752-777(0.40)
gnl UG Hs#S4807819	0.22	1	525-549(0.22)
gnl UG Hs#S2140556	0.53	1	144-169(0.53)
gnl UG Hs#S1729180	3.6	2	425-450(1.87) 1298-1324(3.60)
gnl UG Hs#S15637971	1.4	2	228-258(0.52) 761-789(1.40)
gnl UG Hs#S1730089	0.81	1	310-338(0.81)
gnl UG Hs#S2140450	2.65	4	57-82(2.65) 749-775(1.23) 1072-1099(2.01) 1367-1395(0.66)
gnl UG Hs#S1726775	0.58	1	627-652(0.58)
gnl UG Hs#S2294417	0.82	1	89-114(0.82)
gnl UG Hs#S1732347	0.26	1	1230-1254(0.26)
gnl UG Hs#S10832699	1.17	2	832-858(1.17) 1920-1946(0.69)
gnl UG Hs#S1728605	4.72	1	341-366(4.72)
gnl UG Hs#S2139498	3.2	4	718-743(3.20) 1506-1531(1.11) 1534-1557(1.26) 2608-2632(0.48)
gnl UG Hs#S1727434	3.13	7	227-252(1.43) 402-427(1.14) 483-508(3.13) 1104-1130(0.10) 1653-1679(1.04) 2043-2070(0.51) 2228-2253(2.49)
gnl UG Hs#S3219617	0.46	1	1701-1726(0.46)
gnl UG Hs#S5978425	1.03	3	368-393(1.03) 413-438(0.43) 1001-1029(0.91)
gnl UG Hs#S2139503	2.36	5	1003-1028(1.01) 2404-2429(2.36) 2630-2655(1.30) 3195-3219(0.82) 3389-3418(0.35)
gnl UG Hs#S3619199	3.57	4	130-156(1.76) 218-243(0.07) 515-540(3.57) 1227-1253(0.24)
gnl UG Hs#S4807632	1.69	1	129-154(1.69)
gnl UG Hs#S2293627	3.73	3	120-145(0.65) 229-255(3.73) 647-672(0.62)
gnl UG Hs#S1729267	1.59	1	809-837(1.59)
gnl UG Hs#S1727567	2.3	2	246-271(2.30) 306-331(0.91)
gnl UG Hs#S4553772	0.43	1	496-523(0.43)
gnl UG Hs#S1824540	2.36	2	77-102(2.36) 239-264(2.24)
gnl UG Hs#S1824535	0.81	1	1660-1685(0.81)
gnl UG Hs#S15631499	0.13	1	1040-1066(0.13)
gnl UG Hs#S3218992	2.23	11	1068-1093(0.58) 2041-2066(0.30) 2280-2306(1.08) 2685-2711(2.23) 3144-3169(0.61) 3228-3254(1.44) 6041-6069(0.49) 6362-6387(0.84) 6818-6843(0.65) 6920-6946(0.98) 7047-7073(1.50)
gnl UG Hs#S7112131	0.39	2	407-433(0.34) 856-883(0.39)
gnl UG Hs#S4836468	2.63	1	1306-1331(2.63)
gnl UG Hs#S1728660	2.72	2	130-158(2.72) 200-226(0.36)
gnl UG Hs#S15636025	0.82	3	1126-1152(0.82) 1727-1753(0.04) 1859-1884(0.72)
gnl UG Hs#S3439011	2.2	2	1467-1495(2.20) 1502-1527(0.59)
gnl UG Hs#S1824499	0.04	1	67-92(0.04)
gnl UG Hs#S4621229	0.87	1	259-287(0.87)
gnl UG Hs#S2138713	0.23	1	285-311(0.23)
gnl UG Hs#S2140123	2.04	1	478-503(2.04)
gnl UG Hs#S1730120	2.04	2	443-468(0.87) 840-866(2.04)
gnl UG Hs#S2140463	1.4	1	541-566(1.40)
gnl UG Hs#S3438531	0.91	1	86-112(0.91)

gnl UG Hs#S2140075	3.57	2	123-148(3.57)	361-386(0.30)
gnl UG Hs#S1728964	2.08	1	100-125(2.08)	
gnl UG Hs#S1728195	2.75	1	136-161(2.75)	
gnl UG Hs#S4810140	0.07	2	575-602(0.07)	925-953(0.04)
gnl UG Hs#S15638846	0.4	1	550-575(0.40)	
gnl UG Hs#S1730616	0.49	1	800-825(0.49)	
gnl UG Hs#S2293636	1.87	1	130-155(1.87)	
gnl UG Hs#S15635832	7.72	1	359-385(7.72)	
gnl UG Hs#S5978638	2.47	2	146-171(0.13)	220-245(2.47)
gnl UG Hs#S7110862	2.62	3	752-777(0.07)	1885-1910(1.11) 2040-2065(2.62)
gnl UG Hs#S1727428	1.01	4	115-141(0.12)	470-495(0.15) 1533-1559(0.60) 1634-1663(1.01)
gnl UG Hs#S1728412	2.82	1	148-173(2.82)	
gnl UG Hs#S4612641	1.3	1	403-428(1.30)	
gnl UG Hs#S7110598	1.75	2	330-357(0.74)	434-460(1.75)
gnl UG Hs#S4615834	0.23	1	1968-1994(0.23)	
gnl UG Hs#S3355479	0.27	1	314-340(0.27)	
gnl UG Hs#S2140121	3.04	2	542-567(3.04)	1180-1208(0.16)
gnl UG Hs#S5931218	0.88	1	579-607(0.88)	
gnl UG Hs#S3355579	0.72	1	1739-1764(0.72)	
gnl UG Hs#S2139382	1.72	1	1308-1333(1.72)	
gnl UG Hs#S1729871	1.72	4	255-280(1.72)	317-345(0.40) 481-506(1.63) 2329-2354(0.98)
gnl UG Hs#S1728291	5.47	3	20-43(0.24)	816-842(0.47) 1700-1725(5.47)
gnl UG Hs#S2293419	0.46	1	243-268(0.46)	
gnl UG Hs#S1727890	0.43	1	184-211(0.43)	
gnl UG Hs#S1730487	1.46	1	279-305(1.46)	
gnl UG Hs#S3601496	2.62	3	90-115(2.62)	272-298(0.04) 898-926(2.16)
gnl UG Hs#S14273034	0.39	1	89-114(0.39)	
gnl UG Hs#S1731587	1.26	2	104-129(1.26)	241-264(0.21)
gnl UG Hs#S4619575	1.98	2	887-914(0.26)	996-1022(1.98)
gnl UG Hs#S1731123	3.08	2	980-1006(3.08)	1829-1854(1.82)
gnl UG Hs#S4553535	2.89	4	918-941(0.68)	1255-1283(1.03) 1553-1578(2.89) 1770-1793(0.52)
gnl UG Hs#S4436325	4.17	2	174-200(4.17)	646-671(0.33)
gnl UG Hs#S3993276	0.72	1	184-209(0.72)	
gnl UG Hs#S3439813	1.2	2	1130-1156(0.78)	1187-1215(1.20)
gnl UG Hs#S1727482	2.13	3	144-169(0.45)	229-255(1.57) 276-304(2.13)
gnl UG Hs#S4815925	0.49	3	2121-2147(0.10)	5559-5583(0.15) 5632-5660(0.49)
gnl UG Hs#S1727784	1.18	1	145-173(1.18)	
gnl UG Hs#S3973022	0.85	1	395-419(0.85)	
gnl UG Hs#S1729706	1.68	2	79-104(1.68)	452-477(0.79)
gnl UG Hs#S6693370	1.5	2	175-201(0.67)	210-235(1.50)
gnl UG Hs#S1729567	2.62	4	120-143(2.62)	307-331(0.71) 427-452(0.39) 581-607(0.91)
gnl UG Hs#S1731946	1.4	1	234-259(1.40)	
gnl UG Hs#S4284773	0.98	1	62-87(0.98)	
gnl UG Hs#S2139398	1.2	1	873-898(1.20)	
gnl UG Hs#S4436176	3.55	1	170-196(3.55)	
gnl UG Hs#S6683080	2.13	2	837-862(0.97)	1736-1761(2.13)
gnl UG Hs#S2293166	0.72	1	454-479(0.72)	
gnl UG Hs#S1729695	0.27	1	486-512(0.27)	
gnl UG Hs#S1732167	0.75	1	185-210(0.75)	
gnl UG Hs#S4284754	4.79	1	97-122(4.79)	
gnl UG Hs#S7110363	0.81	2	256-280(0.81)	352-377(0.81)
gnl UG Hs#S2140351	2.29	6	606-632(0.59)	1009-1037(2.07) 1266-1291(0.85) 1992-2017(2.29) 2133-2156(0.97) 2809-2837(1.55)
gnl UG Hs#S3993863	0.78	2	1102-1127(0.78)	1609-1632(0.30)
gnl UG Hs#S816267	3.72	3	347-372(0.58)	1030-1055(1.17) 1468-1493(3.72)

gn UG Hs#S1728014	2.16	1 796-822(2.16)
gn UG Hs#S4612693	0.1	2 423-449(0.10) 759-785(0.10)
gn UG Hs#S15631501	1.13	1 732-757(1.13)
gn UG Hs#S1727359	0.63	1 1371-1396(0.63)
gn UG Hs#S15641548	1.97	2 1623-1650(1.54) 1677-1701(1.97)
gn UG Hs#S2293651	1.08	3 1723-1750(0.48) 1999-2024(1.08) 2266-2294(0.14)
gn UG Hs#S3601762	2.91	2 781-807(2.91) 1360-1385(1.71)
gn UG Hs#S1726921	1.91	1 256-283(1.91)
gn UG Hs#S4546114	0.82	2 400-425(0.20) 1817-1843(0.82)
gn UG Hs#S12743827	4.16	3 495-521(0.94) 703-728(1.05) 970-995(4.16)
gn UG Hs#S1728272	4.45	7 138-163(4.45) 269-293(0.90) 577-602(1.30) 755-780(1.72) 1002-1027(0.14) 1784-1809(0.91) 2010-2038(0.48)
gn UG Hs#S3987605	2.84	1 80-106(2.84)
gn UG Hs#S1730646	0.43	1 1064-1089(0.43)
gn UG Hs#S1731535	0.57	1 130-155(0.57)
gn UG Hs#S14802256	2.31	1 157-182(2.31)
gn UG Hs#S3601538	2.13	2 152-177(0.91) 732-757(2.13)
gn UG Hs#S4046411	2.62	4 941-967(0.45) 1094-1120(1.50) 1169-1194(2.62) 1450-1476(0.59)
gn UG Hs#S4807905	3.33	1 616-641(3.33)
gn UG Hs#S1726595	3.47	3 581-607(1.68) 934-960(2.89) 1156-1184(3.47)

-2195(0.26) 2238-2264(6.14)

) 5420-5445(0.30) 5583-5608(0.01) 6054-6077(1.21)

4(0.20) 8512-8540(2.07) 9210-9235(1.89) 9456-9484(1.08)

4) 2529-2555(2.25)

) 4963-4989(3.03) 5878-5904(2.30) 6404-6429(1.62) 6576-6601(5.23)

3) 4731-4756(2.04)

3570-3595(0.55) 3640-3665(1.40) 3836-3862(2.75) 4170-4195(0.79)

1(0.85)

153(0.36) 3872-3897(1.16)

324-3350(3.40) 3774-3800(1.37) 4668-4693(0.40)

3558-3586(3.08) 3592-3618(1.76) 4163-4191(0.30)

.27) 4544-4572(0.86) 4598-4623(0.50)

) 2301-2327(0.17) 2335-2360(0.55) 2370-2395(2.04) 2579-2604(0.07)

09-2734(1.30) 2799-2824(1.98) 3533-3559(2.08)

9(1.79) 4911-4937(0.07) 5314-5339(2.04) 5361-5389(3.20)

2.84) 5566-5594(0.01)

-3562(2.13) 3757-3782(0.46) 4058-4083(1.72) 4470-4495(1.82) 4556-4581(2.53) 4683-4708(1.89)

.05) 3702-3730(1.04) 3941-3969(0.38) 4109-4135(0.72)